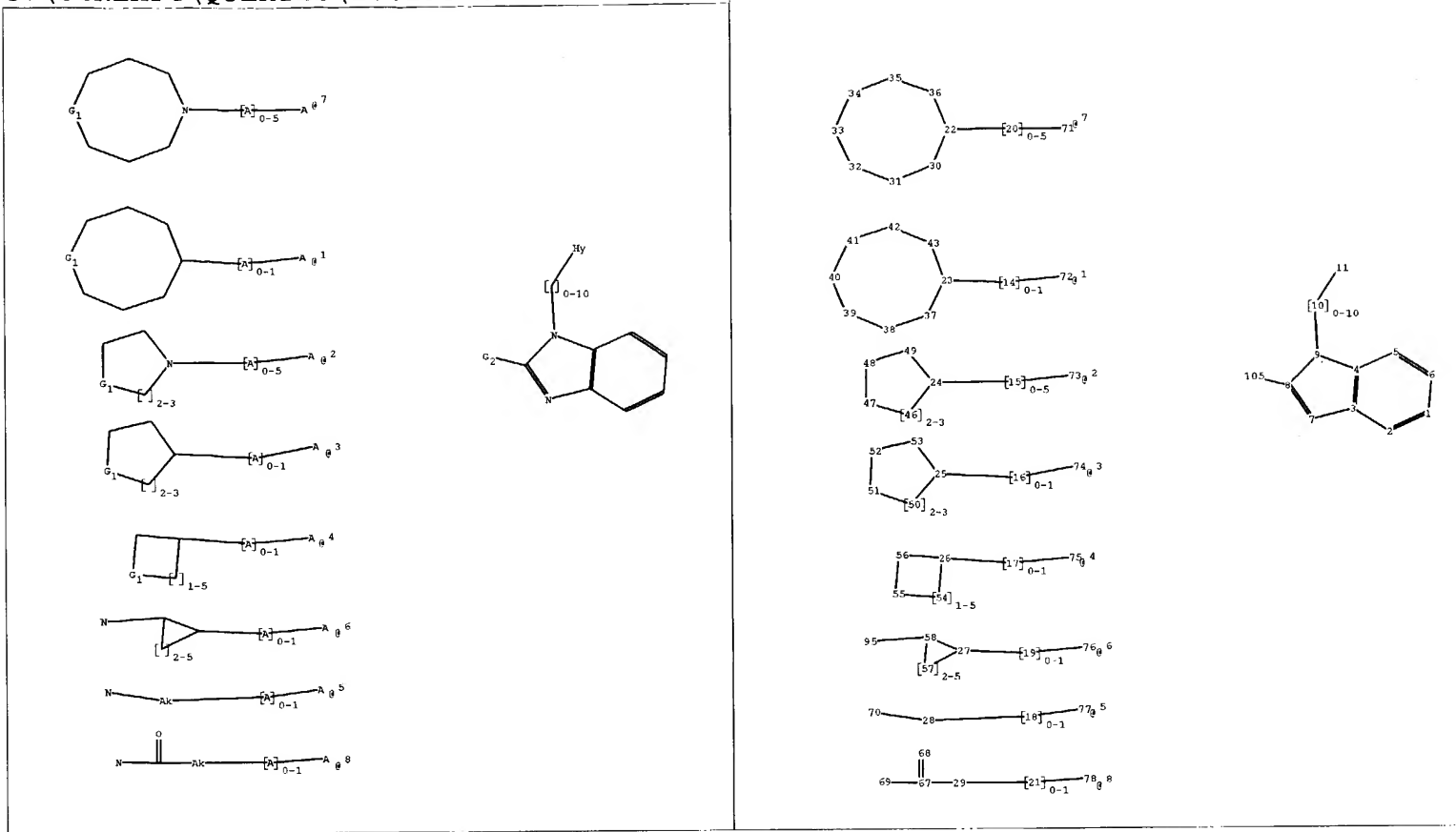


C:\STNEXP4\QUERIES\10019376.str



chain nodes :

10 11 14 15 16 17 18 19 20 21 28 29 67 68 71 72 73 74
75 76 77 78 105

ring nodes :

1 2 3 4 5 6 7 8 9 22 23 24 25 26 27 30 31 32 33 34 35
36 37 38 39 40 41 42 43 46 47 48 49 50 51 52 53 54 55
56 57 58

ring/chain nodes :

69 70 95

chain bonds :

8-105 9-10 10-11 14-23 14-72 15-24 15-73 16-25 16-74 17-26
17-75 18-28 18-77 19-27 19-76 20-22 20-71 21-29 21-78 28-70
29-67 58-95 67-68 67-69

ring bonds :

1-2 1-6 2-3 3-4 3-7 4-5 4-9 5-6 7-8 8-9 22-30 22-36 23-37
23-43 24-46 24-49 25-50 25-53 26-54 26-56 27-57 27-58 30-31
31-32 32-33 33-34 34-35 35-36 37-38 38-39 39-40 40-41 41-42
42-43 46-47 47-48 48-49 50-51 51-52 52-53 54-55 55-56 57-58

exact/norm bonds :

3-7 4-9 7-8 8-9 8-105 9-10 10-11 14-23 14-72 15-24 15-73 16-25
16-74 17-26 17-75 18-28 18-77 19-27 19-76 20-22 20-71 21-29
21-78 22-30 22-36 23-37 23-43 24-46 24-49 25-50 25-53 26-54
26-56 27-57 27-58 28-70 29-67 30-31 31-32 32-33 33-34 34-35
35-36 37-38 38-39 39-40 40-41 41-42 42-43 46-47 47-48 48-49
50-51 51-52 52-53 54-55 55-56 57-58 58-95 67-68 67-69

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6

G1:C,N

G2:Cy, [*1], [*2], [*3], [*4], [*5], [*6], [*7], [*8]

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom
10:CLASS 11:Atom 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS
19:CLASS 20:CLASS 21:CLASS 22:Atom 23:Atom 24:Atom 25:Atom 26:Atom
27:Atom 28:CLASS 29:CLASS 30:Atom 31:Atom 32:Atom 33:Atom 34:Atom
35:Atom 36:Atom 37:Atom 38:Atom 39:Atom 40:Atom 41:Atom 42:Atom
43:Atom 46:Atom 47:Atom 48:Atom 49:Atom 50:Atom 51:Atom 52:Atom
53:Atom 54:Atom 55:Atom 56:Atom 57:Atom 58:Atom 67:CLASS 68:CLASS
69:CLASS 70:CLASS 71:CLASS 72:CLASS 73:CLASS 74:CLASS 75:CLASS
76:CLASS 77:CLASS 78:CLASS 95:CLASS 105:CLASS

Generic attributes :

11:
Type of Ring System : Polycyclic

10/019,376

=> d his

(FILE 'HOME' ENTERED AT 14:45:41 ON 20 MAR 2004)

FILE 'REGISTRY' ENTERED AT 14:45:59 ON 20 MAR 2004
ACTIVATE JANS10019376/A

L1 STR
L2 (197134)SEA FILE=REGISTRY ABB=ON PLU=ON 333.401/RID
L3 1773 SEA FILE=REGISTRY SUB=L2 SSS FUL L1

FILE 'CAPLUS' ENTERED AT 14:46:55 ON 20 MAR 2004

L4 342 S L3
L5 165 S L4 AND PATENT/DT
L6 177 S L4 NOT L5

FILE 'STNGUIDE' ENTERED AT 14:49:01 ON 20 MAR 2004

FILE 'REGISTRY' ENTERED AT 14:58:43 ON 20 MAR 2004

L7 STRUCTURE UPLOADED
L8 QUE L7
L9 2 S L8
L10 23 S L9 SUB=L3 SAM
L11 583 S L9 SUB=L3 FUL

FILE 'CAPLUS' ENTERED AT 15:00:05 ON 20 MAR 2004

L12 107 S L11
L13 ANALYZE L12 1- RN HIT : 527 TERMS

FILE 'REGISTRY' ENTERED AT 15:00:33 ON 20 MAR 2004

L14 100 S 164917?/RN
L15 99 S 137744?/RN
L16 100 S 145950?/RN
L17 100 S 156906?/RN
L18 100 S 164917?/RN
L19 100 S 172423?/RN
L20 100 S 332171?/RN
L21 1068 S 41383?/RN
L22 100 S 102948?/RN
L23 18 S L11 AND L14
L24 2 S L11 AND L15
L25 1 S L11 AND L16
L26 8 S L11 AND L17
L27 18 S L11 AND L18
L28 1 S L11 AND L19
L29 17 S L11 AND L20
L30 1 S L11 AND L21
L31 1 S L11 AND L22
L32 534 S L11 NOT (L23 OR L24 OR L25 OR L26 OR L27 OR L28 OR L29 OR L30

FILE 'CAPLUS' ENTERED AT 15:04:20 ON 20 MAR 2004

L33 87 S L32

FILE 'REGISTRY' ENTERED AT 15:05:25 ON 20 MAR 2004

L34 STRUCTURE UPLOADED
L35 QUE L34
L36 117 S L35 SUB=L11 FUL

10/019,376

L37 466 S L11 NOT L36

FILE 'CAPLUS' ENTERED AT 15:09:22 ON 20 MAR 2004
L38 69 S L37

FILE 'REGISTRY' ENTERED AT 15:09:30 ON 20 MAR 2004
L39 451 S L37 NOT (L23 OR L24 OR L25 OR L26 OR L27 OR L28 OR L29 OR L30
L40 71 S L39 AND 2-PYRID?
L41 1 S L40 AND C25 H25 N7/MF
L42 1 S L40 AND C26 H24 F3 N7/MF
L43 1 S L40 AND C27 H25 CL F3 N7/MF
L44 68 S L40 NOT (L41 OR L42 OR L43)
L45 383 S L39 NOT L44

FILE 'CAPLUS' ENTERED AT 15:15:24 ON 20 MAR 2004
L46 52 S L45
L47 ANALYZE L46 1- RN HIT : 347 TERMS

FILE 'REGISTRY' ENTERED AT 15:15:58 ON 20 MAR 2004
L48 100 S 124337?/RN
L49 100 S 150452?/RN
L50 1098 S 63822?/RN
L51 100 S 99963?/RN
L52 100 S 105594?/RN
L53 100 S 122240?/RN
L54 100 S 122685?/RN
L55 1 S L45 AND L48
L56 3 S L45 AND L49
L57 1 S L45 AND L50
L58 1 S L45 AND L51
L59 1 S L45 AND L52
L60 2 S L45 AND L53
L61 1 S L45 AND L54
L62 2 S L56 NOT C18 H13 CL N4 O2/MF
L63 375 S L45 NOT (L55 OR L62 OR L57 OR L59 OR L60 OR L61)

FILE 'CAPLUS' ENTERED AT 15:19:42 ON 20 MAR 2004
L64 45 S L63

FILE 'REGISTRY' ENTERED AT 15:20:31 ON 20 MAR 2004
L65 2 S L63 AND COBALT
L66 0 S L63 AND IRON
L67 0 S L63 AND COPPER
L68 2 S L63 AND FER?
L69 371 S L63 NOT (L65 OR L68)

FILE 'CAPLUS' ENTERED AT 15:22:12 ON 20 MAR 2004
L70 43 S L69

=> d ibib abs hitstr 1-43

10/019,376

L70 ANSWER 1 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

ACCESSION NUMBER: 2003:63695 CAPLUS

DOCUMENT NUMBER: 139180062

TITLE: Preparation of novel benzimidazole compounds as antibacterial agents

INVENTOR(S): Swayze, Eric E.; Me, Yun; Seth, Punit P.; Jefferson, Elizabeth Anne

PATENT ASSIGNEE(S): Isis Pharmaceuticals, Inc., USA

SOURCE: PCT Int. Appl., 85 pp.

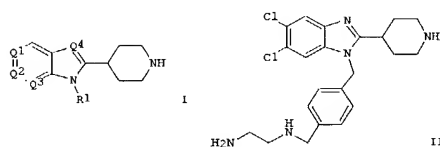
DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

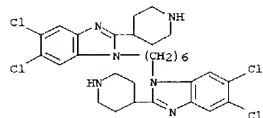
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 200306622	A1	20030814	WO 2003-US3590	20030206
W: AE, AG, AL, AM, AT, AU, AZ, BA, BE, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, VZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, HR, NE, SN, TD, TG				
US 2003187258	A1	20031002	US 2002-71978	20020206
PRIORITY APPL. INFO.: MARPAT 139:180062				
OTHER SOURCE(S): GI				



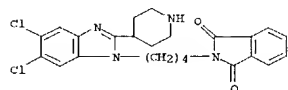
AB Novel benzimidazole derivs. of formula I [R1 = H, alkyl, aryl, arylalkyl, heteroaryl, arylsulfonfyl, aryloxy carbonyl, etc.; Q1-Q3 = N, (substituted) CH; Q4 = N, S] are prepared that possess antibacterial activity. The invention also is directed to compns. including the benzimidazole derivs., and methods for using the same. Thus, II was prepared starting from



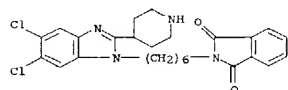
L70 ANSWER 1 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



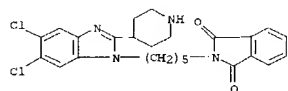
RN 578708-39-1 CAPLUS
CN 1H-Isindole-1,3(2H)-dione, 2-[4-[5,6-dichloro-2-(4-piperidinyl)-1H-benzimidazol-1-yl]butyl]- (9CI) (CA INDEX NAME)



RN 578708-42-6 CAPLUS
CN 1H-Isindole-1,3(2H)-dione, 2-[6-[5,6-dichloro-2-(4-piperidinyl)-1H-benzimidazol-1-yl]hexyl]- (9CI) (CA INDEX NAME)



RN 578708-43-7 CAPLUS
CN 1H-Isindole-1,3(2H)-dione, 2-[5-[5,6-dichloro-2-(4-piperidinyl)-1H-benzimidazol-1-yl]pentyl]- (9CI) (CA INDEX NAME)



RN 578708-45-9 CAPLUS
CN 1H-Benzimidazole, 5,6-dichloro-1-[5-(1,3-dihydro-2H-isindol-2-yl)pentyl]-2-(4-piperidinyl)- (9CI) (CA INDEX NAME)

L70 ANSWER 1 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

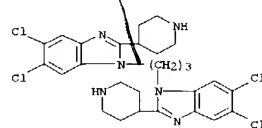
4,5-dichloro-1,2-phenylenediamine and N-BOC-isonepecotic acid, and had an MIC of 6-12 μ M against *S. aureus* and 12-25 μ M against *E. coli*.

IT 578708-34-6P 578708-35-7P 578708-36-8P
578708-39-1P 578708-42-6P 578708-43-7P
578708-45-9P 578708-46-0P 578708-47-1P
578708-48-2P 578708-49-3P 578708-50-6P
578708-51-7P 578708-54-0P 578708-25-8P

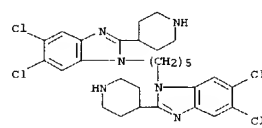
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of benzimidazole compds. as antibacterial agents)

RN 578708-34-6 CAPLUS
CN 1H-Benzimidazole, 1,1'-(1,3-propanediyl)bis[5,6-dichloro-2-(4-piperidinyl)- (9CI) (CA INDEX NAME)]

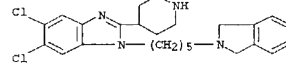


RN 578708-35-7 CAPLUS
CN 1H-Benzimidazole, 1,1'-(1,5-pentanedyl)bis[5,6-dichloro-2-(4-piperidinyl)- (9CI) (CA INDEX NAME)]

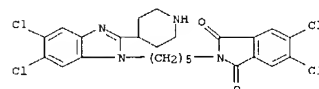


RN 578708-36-8 CAPLUS
CN 1H-Benzimidazole, 1,1'-(1,6-hexanedyl)bis[5,6-dichloro-2-(4-piperidinyl)- (9CI) (CA INDEX NAME)]

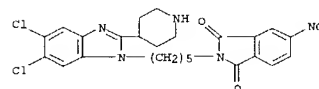
L70 ANSWER 1 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



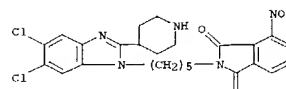
RN 578708-46-0 CAPLUS
CN 1H-Isindole-1,3(2H)-dione, 5,6-dichloro-2-[5-[5,6-dichloro-2-(4-piperidinyl)-1H-benzimidazol-1-yl]pentyl]- (9CI) (CA INDEX NAME)



RN 578708-47-1 CAPLUS
CN 1H-Isindole-1,3(2H)-dione, 2-[5-[5,6-dichloro-2-(4-piperidinyl)-1H-benzimidazol-1-yl]pentyl]-5-nitro- (9CI) (CA INDEX NAME)



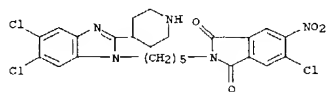
RN 578708-48-2 CAPLUS
CN 1H-Isindole-1,3(2H)-dione, 2-[5-[5,6-dichloro-2-(4-piperidinyl)-1H-benzimidazol-1-yl]pentyl]-4-nitro- (9CI) (CA INDEX NAME)



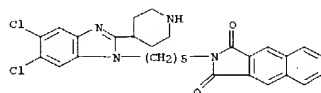
RN 578708-49-3 CAPLUS
CN 1H-Isindole-1,3(2H)-dione, 5-chloro-2-[5-[5,6-dichloro-2-(4-piperidinyl)-1H-benzimidazol-1-yl]pentyl]-6-nitro- (9CI) (CA INDEX NAME)

10/019,376

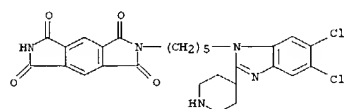
L70 ANSWER 1 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



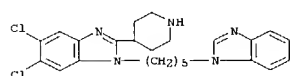
RN 578708-50-6 CAPLUS
CN 1H-Benzimidazole, 1-[5-(2-chlorophenyl)pentyl]-2-[2-(4-chlorophenyl)-1H-benzimidazole-1-yl]pentyl- (9C1) (CA INDEX NAME)



RN 578708-51-7 CAPLUS
CN Benzo[1,2-c:4,5-c']dipyrrole-1,3,5,7(2H,6H)-tetrone, 2-[5-(2-chlorophenyl)-1H-benzimidazole-1-yl]pentyl- (9C1) (CA INDEX NAME)

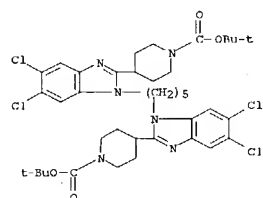


RN 578708-54-0 CAPLUS
CN 1H-Benzimidazole, 1-[5-(1H-benzimidazole-1-yl)pentyl]-5,6-dichloro-2-(4-piperidinyl)- (9C1) (CA INDEX NAME)

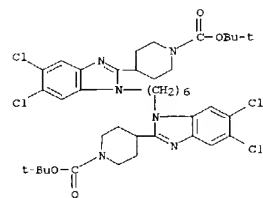


RN 578709-25-8 CAPLUS
CN 1H-Benzimidazole, 1-[5-(1H-benzimidazole-1-yl)pentyl]-5,6-dichloro-2-(4-piperidinyl)- (9C1) (CA INDEX NAME)

L70 ANSWER 1 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

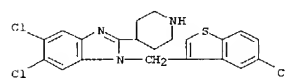


RN 578709-54-3 CAPLUS
CN 1-Piperidinecarboxylic acid, 4,4'-[1,6-hexanediylbis(5,6-dichloro-1H-benzimidazole-1,2-diyl)]bis-, bis(1,1-dimethylethyl) ester (9C1) (CA INDEX NAME)



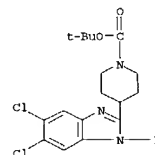
REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L70 ANSWER 1 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

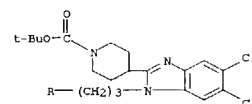


IT 578709-52-1P 578709-53-2P 578709-54-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of benzimidazole compds. as antibacterial agents)
RN 578709-52-1 CAPLUS
CN 1-Piperidinecarboxylic acid, 4,4'-[1,3-propanediylbis(5,6-dichloro-1H-benzimidazole-1,2-diyl)]bis-, bis(1,1-dimethylethyl) ester (9C1) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A



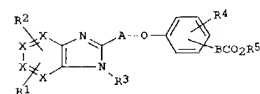
RN 578709-53-2 CAPLUS
CN 1-Piperidinecarboxylic acid, 4,4'-[1,5-pentanediyldis(5,6-dichloro-1H-benzimidazole-1,2-diyl)]bis-, bis(1,1-dimethylethyl) ester (9C1) (CA INDEX NAME)

NO ANSWER 2 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN
ABSTRACTION NUMBER: 2003:223754 CAPLUS
ACCESSION NUMBER: 138:238186
TITLE: Preparation of imidazolylalkoxybenzoic and imidazolylalkoxyaryllactic acid derivatives for treatment of hyperglycemia-related disorders
INVENTOR(S): Molinet, Gerard; Correc, Jean Claude; Metais, Eric
PATENT ASSIGNEE(S): Liphaz, Fr.
SOURCE: Fr. Demande, 102 pp.
CODEN: FRXXBL
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2829765	A1	20030321	FR 2001-11952	20010914
WO 2003024937	A1	20030327	WO 2002-EP9832	20020903

W: AE, AG, AL, AM, AT, AU, AZ, BA, BR, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MW, MX, MY, NZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, ST, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, IT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, HL, HR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: FR 2001-11952 A 20010914
OTHER SOURCE(S): MARPAT 138:238186
GI

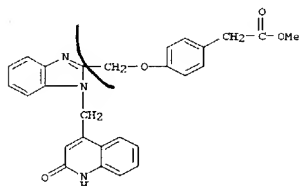


AB The invention relates to imidazolylalkoxybenzoic and imidazolylalkoxyaryllactic acid derivatives (shown as I). Variables defined below: e.g. 4-(1-benzyl-5,6-dimethylbenzimidazol-2-ylmethoxy)phenylacetic acid), methods for preparing them and their use in treatment of pathologies associated with hyperglycemia. For I: X = C, N, O or S; R1, R2, R3, R4 and R5 = H, alkyl ((un)substituted C1-C20); alkylene ((un)substituted C2-C20), cycloalkyl ((un)substituted C3-C8), heterocycloalkyl ((un)substituted C3-C8), ((un)substituted aryl (C6-C14) alkyl (C1-C20), ((un)substituted aryl (C6-C14), ((un)substituted heteroaryl (C1-C13); A = ((un)substituted alkyl (C1-C6); B = simple bond or ((un)substituted alkyl (C1-C6); with various provisos listed in the claims. The percentage redns. of glycemia in rats by 7 examples of I at 200 mg/kg after 4 days are 13.22 and for 4 examples

10/019,376

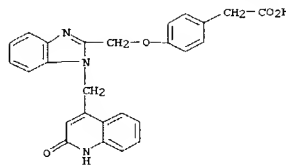
L70 ANSWER 2 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
 of 1 at 20 mg/kg are 13-14; for example, 14v at 20 mg/kg for
 4-(1-benzyl-5,6-dimethylbenzimidazol-2-ylmethoxy)phenylacetic acid. Two
 example preps. of 1 are included and mass spectral characterization data
 are provided for approx. 400 examples of 1. For example,
 3-[1-(2-chloro-4-fluorophenylmethyl)-2-benzimidazolyl]methoxyphenylacetic
 acid was prepd. in 3 steps via the following intermediates: the sodium
 salt of Me 3-(2-benzimidazolyl)methoxyphenylacetate (574 from Me
 3-cyanomethoxybenzoate and 1,2-diaminobenzene dihydrochloride) and Me
 3-[1-(2-chloro-4-fluorophenylmethyl)-2-benzimidazolyl]methoxyphenylacetate

IT 502178-03-2F, Methyl 4-[[1-[(1,2-dihydro-2-oxoquinolin-4-yl)methyl]benzimidazol-2-yl]methoxy]benzeneacetate 502178-46-3P,
 4-[[1-[(1,2-Dihydro-2-oxoquinolin-4-yl)methyl]benzimidazol-2-yl]methoxy]benzeneacetic acid
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
 (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
 (Uses)
 (Drug candidate: preparation of imidazolylalkoxyarylalkanoic for
 treatment of hyperglycemia-related disorders)
 RN 502178-03-2 CAPLUS
 CN Benzeneacetic acid, 4-[[1-[(1,2-dihydro-2-oxo-4-quinolyl)methyl]-1H-benzimidazol-2-yl]methoxy]- (9CI) (CA INDEX NAME)



RN 502178-46-3 CAPLUS
 CN Benzeneacetic acid, 4-[[1-[(1,2-dihydro-2-oxo-4-quinolyl)methyl]-1H-benzimidazol-2-yl]methoxy]- (9CI) (CA INDEX NAME)

L70 ANSWER 2 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

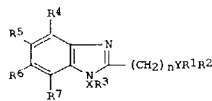


REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L70 ANSWER 3 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 137138482
 DOCUMENT NUMBER: 137138482
 TITLE: Benzimidazole compounds and antiviral uses thereof
 INVENTOR(S): Lackey, John William; Kinder, Daniel S.; Tvermoes, Nicolai A.
 PATENT ASSIGNEE(S): Trimeris, Inc., USA
 SOURCE: PCT Int. Appl., 143 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002092575	A1	20021121	WO 2002-051489	20020510
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GT, GW, ML, MR, NE, SN, TD, TG				

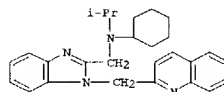
US 2003119754 A1 20030626 US 2002-141839 20020509
 PRIORITY APPLN. INFO.:
 OTHER SOURCE(S): MARPAT 137:38482
 GI



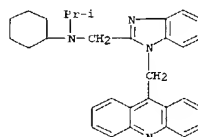
AB Title compds. 1 [R1, R2 = H, (un)substituted alkyl, cycloalkyl, heterocyclic, aryl, heteroaryl; R3 = H, halo, (un)substituted alkyl, OH, alkoxy, aryl, heterocyclic, heteroaryl; R4-R7 = H, halo, (un)substituted alkyl, OH, alkoxy, aryl, heterocyclic, heteroaryl; X = bond, (un)substituted alkylene, Cn, CO, P, S; Y = N, P, O, S; when Y = O, S, R2 is absent; n = 0-4] were prepared for use as virucides that inhibit membrane fusion associated events such as viral transmission, reduce viral load or otherwise treat viral infections, particularly that caused by Respiratory Syncytial Virus. Thus, 1 [R1 = cyclohexyl, R2 = CHMe2, Y = N, X = CH2, R3 = 2-quinolyl, R4-R7 = H] had IC50 of 5.16 µg/mL.
 IT 475646-61-8P 475646-70-9P 475646-71-0P
 475646-86-7P 475646-95-8P 475647-09-7P
 475647-13-3P 475647-22-4P 475647-29-1P
 475647-30-4P 475647-33-7P 475647-34-0P
 475647-39-3P 475647-41-7P 475647-48-4P
 475647-53-1P 475647-65-5P 475647-69-9P
 475647-72-4P 475647-75-7P 475647-76-8P

L70 ANSWER 3 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

475647-77-9P 475647-81-5P 475647-84-8P
 475647-93-9P 475648-00-1P 475648-03-4P
 475648-04-5P 475648-06-7P 475648-10-3P
 475648-11-4P 475648-12-5P 475648-17-0P
 475648-19-2P 475648-20-5P 475648-22-7P
 475648-24-9P 475648-25-0P 475648-26-1P
 475648-27-2P 475648-28-3P 475648-29-4P
 475648-30-7P 475648-31-8P 475648-32-9P
 475648-33-0P 475648-35-2P 475648-36-3P
 475648-39-6P 475648-40-9P 475648-41-0P
 475648-42-1P 475648-43-2P 475648-44-3P
 475648-45-4P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
 (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
 (Uses)
 (prepn. of benzimidazole derivs. as virucides for treating Respiratory
 Syncytial Virus infections)
 RN 475646-61-8 CAPLUS
 CN 1H-Benzimidazole-2-methanamine, N-cyclohexyl-N-(1-methylethyl)-1-(2-quinolyl)methyl- (9CI) (CA INDEX NAME)



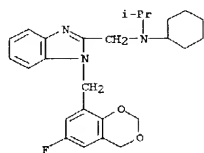
RN 475646-70-9 CAPLUS
 CN 1H-Benzimidazole-2-methanamine, 1-(9-acridinylmethyl)-N-cyclohexyl-N-(1-methylethyl)- (9CI) (CA INDEX NAME)



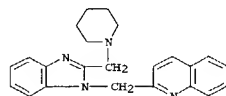
RN 475646-71-0 CAPLUS
 CN 1H-Benzimidazole-2-methanamine, N-cyclohexyl-N-[(6-fluoro-4H-1,3-benzodioxin-8-yl)methyl]-N-(1-methylethyl)- (9CI) (CA INDEX NAME)

10/019,376

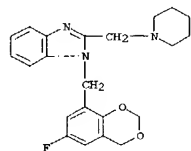
L70 ANSWER 3 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 475646-86-7 CAPLUS
CN Quinoline, 2-[[2-(1-piperidinylmethyl)-1H-benzimidazol-1-yl)methyl]- (9CI) (CA INDEX NAME)

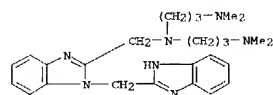


RN 475646-95-8 CAPLUS
CN 1H-Benzimidazole, 1-((6-fluoro-4H-1,3-benzodioxin-8-yl)methyl)-2-((1-piperidinylmethyl)-N-methyl-N-(1-methyl-4-piperidinyl)- (9CI) (CA INDEX NAME)

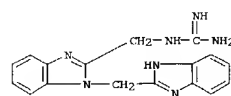


RN 475647-09-7 CAPLUS
CN 1H-Benzimidazole-2-methanamine, 1-((1H-benzimidazol-2-ylmethyl)-N-methyl-N-(1-methyl-4-piperidinyl)- (9CI) (CA INDEX NAME)

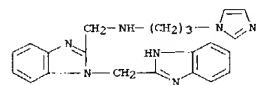
L70 ANSWER 3 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



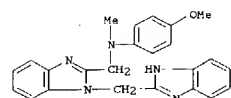
RN 475647-33-7 CAPLUS
CN Guanidine, [[1-((1H-benzimidazol-2-ylmethyl)-1H-benzimidazol-2-yl)methyl]- (9CI) (CA INDEX NAME)



RN 475647-34-8 CAPLUS
CN 1H-Benzimidazole-2-methanamine, 1-((1H-benzimidazol-2-ylmethyl)-N-[3-(1H-imidazol-1-yl)propyl]- (9CI) (CA INDEX NAME)

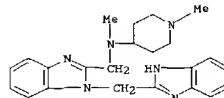


RN 475647-39-3 CAPLUS
CN 1H-Benzimidazole-2-methanamine, 1-((1H-benzimidazol-2-ylmethyl)-N-(4-methoxyphenyl)-N-methyl- (9CI) (CA INDEX NAME)

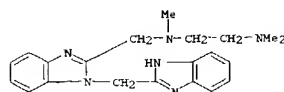


RN 475647-41-7 CAPLUS
CN 1H-Benzimidazole-2-methanamine, 1-((1H-benzimidazol-2-ylmethyl)-N-[3-(4-methyl-1-piperazinyl)propyl]- (9CI) (CA INDEX NAME)

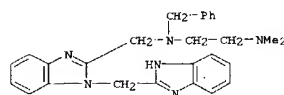
L70 ANSWER 3 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



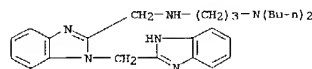
RN 475647-13-3 CAPLUS
CN 1,2-Ethanediamine, N-[[1-((1H-benzimidazol-2-ylmethyl)-1H-benzimidazol-2-yl)methyl]-N,N',N'-trimethyl- (9CI) (CA INDEX NAME)



RN 475647-22-4 CAPLUS
CN 1,2-Ethanediamine, N-[[1-((1H-benzimidazol-2-ylmethyl)-1H-benzimidazol-2-yl)methyl]-N,N',N'-dimethyl-N-(phenylmethyl)- (9CI) (CA INDEX NAME)

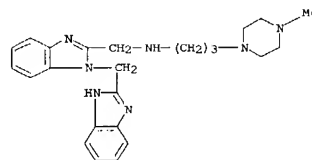


RN 475647-29-1 CAPLUS
CN 1,3-Propanediamine, N'-[[1-((1H-benzimidazol-2-ylmethyl)-1H-benzimidazol-2-yl)methyl]-N,N-dibutyl- (9CI) (CA INDEX NAME)

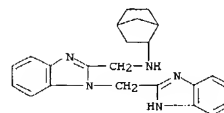


RN 475647-30-4 CAPLUS
CN 1,3-Propanediamine, N-[[1-((1H-benzimidazol-2-ylmethyl)-1H-benzimidazol-2-yl)methyl]-N-[3-(dimethylamino)propyl]-N',N'-dimethyl- (9CI) (CA INDEX NAME)

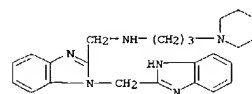
L70 ANSWER 3 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 475647-48-4 CAPLUS
CN 1H-Benzimidazole-2-methanamine, 1-((1H-benzimidazol-2-ylmethyl)-N-bicyclo[2.2.1]hept-2-yl- (9CI) (CA INDEX NAME)



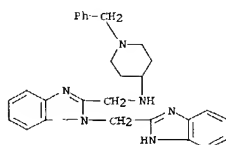
RN 475647-53-1 CAPLUS
CN 1H-Benzimidazole-2-methanamine, 1-((1H-benzimidazol-2-ylmethyl)-N-[3-(4-morpholinyl)propyl]- (9CI) (CA INDEX NAME)



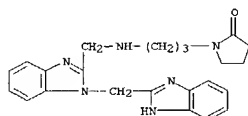
RN 475647-65-5 CAPLUS
CN 1H-Benzimidazole-2-methanamine, 1-((1H-benzimidazol-2-ylmethyl)-N-[1-(phenylmethyl)-4-piperidinyl]- (9CI) (CA INDEX NAME)

10/019,376

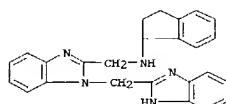
L70 ANSWER 3 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 475647-69-9 CAPLUS
CN 2-Pyrrolidinone, 1-[3-[[[1-(1H-benzimidazol-2-ylmethyl)-1H-benzimidazol-2-yl]methyl]amino]propyl]- (9CI) (CA INDEX NAME)



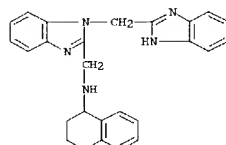
RN 475647-72-4 CAPLUS
CN 1H-Benzimidazole-2-methanamine, 1-([1-(1H-benzimidazol-2-ylmethyl)-N-(2,3-dihydro-1H-inden-1-yl)- (9CI) (CA INDEX NAME)



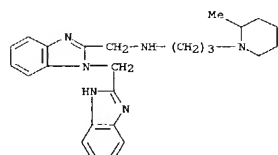
RN 475647-75-7 CAPLUS
CN 1H-Benzimidazole-2-methanamine, 1-([1-(1H-benzimidazol-2-ylmethyl)-N-(3-(1-pyrrolidinyl)propyl)- (9CI) (CA INDEX NAME)

L70 ANSWER 3 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

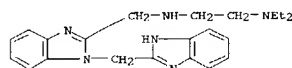
RN 475647-84-8 CAPLUS
CN 1H-Benzimidazole-2-methanamine, 1-([1-(1H-benzimidazol-2-ylmethyl)-N-(1,2,3,4-tetrahydro-1-naphthalenyl)- (9CI) (CA INDEX NAME)



RN 475647-87-1 CAPLUS
CN 1H-Benzimidazole-2-methanamine, 1-([1-(1H-benzimidazol-2-ylmethyl)-N-(3-(2-methyl-1-piperidinyl)propyl)- (9CI) (CA INDEX NAME)

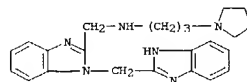


RN 475647-89-3 CAPLUS
CN 1,2-Ethanediamine, N'-[1-([1-(1H-benzimidazol-2-ylmethyl)-1H-benzimidazol-2-yl]methyl)-N,N-diethyl]- (9CI) (CA INDEX NAME)

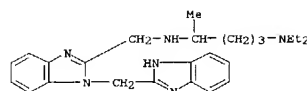


RN 475647-92-8 CAPLUS
CN 1H-Benzimidazole-2-methanamine, 1-([1-(1H-benzimidazol-2-ylmethyl)-N-cyclohexyl]- (9CI) (CA INDEX NAME)

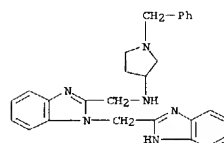
L70 ANSWER 3 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



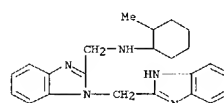
RN 475647-76-8 CAPLUS
CN 1,4-Pentanediamine, N4-[[[1-(1H-benzimidazol-2-ylmethyl)-1H-benzimidazol-2-yl]methyl]-N1,N1-diethyl]- (9CI) (CA INDEX NAME)



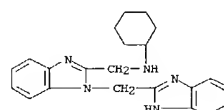
RN 475647-77-9 CAPLUS
CN 1H-Benzimidazole-2-methanamine, 1-([1-(1H-benzimidazol-2-ylmethyl)-N-[1-(phenylmethyl)-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)



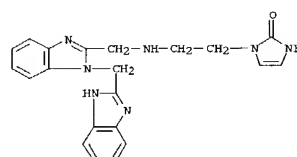
RN 475647-81-5 CAPLUS
CN 1H-Benzimidazole-2-methanamine, 1-([1-(1H-benzimidazol-2-ylmethyl)-N-(2-methylcyclohexyl)- (9CI) (CA INDEX NAME)



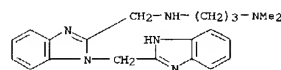
L70 ANSWER 3 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



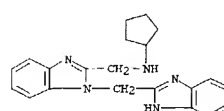
RN 475647-93-9 CAPLUS
CN 2H-Imidazol-2-one, 1-[2-[[[1-(1H-benzimidazol-2-ylmethyl)-1H-benzimidazol-2-yl]methyl]amino]ethyl]-1,3-dihydro- (9CI) (CA INDEX NAME)



RN 475648-00-1 CAPLUS
CN 1,3-Propanediamine, N'-[1-([1-(1H-benzimidazol-2-ylmethyl)-1H-benzimidazol-2-yl]methyl)-N,N-dimethyl]- (9CI) (CA INDEX NAME)

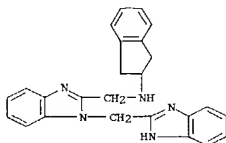


RN 475648-03-4 CAPLUS
CN 1H-Benzimidazole-2-methanamine, 1-([1-(1H-benzimidazol-2-ylmethyl)-N-cyclopentyl]- (9CI) (CA INDEX NAME)

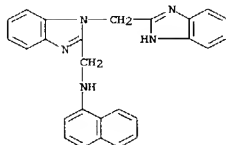


10/019,376

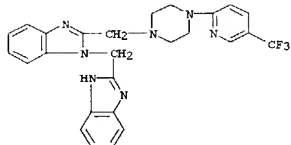
L70 ANSWER 3 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
 RN 475648-04-5 CAPLUS
 CN 1H-Benzimidazole-2-methanamine, 1-[(1H-benzimidazol-2-ylmethyl)-N-(2,3-dihydro-1H-inden-2-yl)]- (9CI) (CA INDEX NAME)



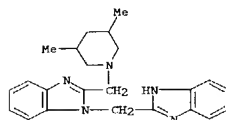
RN 475648-06-7 CAPLUS
 CN 1H-Benzimidazole-2-methanamine, 1-[(1H-benzimidazol-2-ylmethyl)-N-1-naphthalenyl]- (9CI) (CA INDEX NAME)



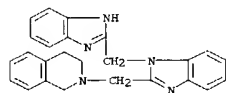
RN 475648-10-3 CAPLUS
 CN 1H-Benzimidazole, 1-[(1H-benzimidazol-2-ylmethyl)-2-[[4-[(trifluoromethyl)-2-pyridinyl]-1-piperazinyl]methyl]- (9CI) (CA INDEX NAME)



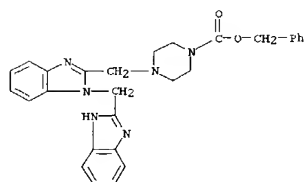
L70 ANSWER 3 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
 RN 475648-19-2 CAPLUS
 CN 1H-Benzimidazole, 1-[(1H-benzimidazol-2-ylmethyl)-2-[(3,5-dimethyl-1-piperidinyl)methyl]- (9CI) (CA INDEX NAME)



RN 475648-20-5 CAPLUS
 CN Isoquinoline, 2-[[1-[(1H-benzimidazol-2-ylmethyl)-1H-benzimidazol-2-yl]methyl]-1,2,3,4-tetrahydro- (9CI) (CA INDEX NAME)

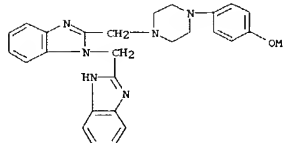


RN 475648-22-7 CAPLUS
 CN 1-Piperazinecarboxylic acid, 4-[[1-[(1H-benzimidazol-2-ylmethyl)-1H-benzimidazol-2-yl]methyl]-, phenylmethyl ester (9CI) (CA INDEX NAME)

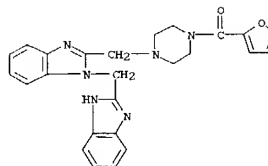


RN 475648-24-9 CAPLUS
 CN 2-Piperidineethanol, 1-[[1-[(1H-benzimidazol-2-ylmethyl)-1H-benzimidazol-2-yl]methyl]- (9CI) (CA INDEX NAME)

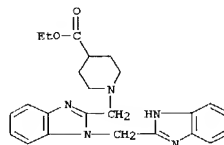
L70 ANSWER 3 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
 RN 475648-11-4 CAPLUS
 CN 1H-Benzimidazole, 1-[(1H-benzimidazol-2-ylmethyl)-2-[[4-(4-methoxyphenyl)-1-piperazinyl]methyl]- (9CI) (CA INDEX NAME)



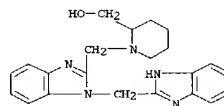
RN 475648-12-5 CAPLUS
 CN Piperazine, 1-[[1-[(1H-benzimidazol-2-ylmethyl)-1H-benzimidazol-2-yl]methyl]-4-(2-furanylcarbonyl)- (9CI) (CA INDEX NAME)



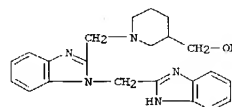
RN 475648-17-0 CAPLUS
 CN 4-Piperidinecarboxylic acid, 1-[[1-[(1H-benzimidazol-2-ylmethyl)-1H-benzimidazol-2-yl]methyl]-, ethyl ester (9CI) (CA INDEX NAME)



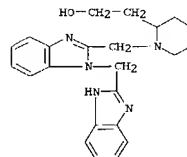
L70 ANSWER 3 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



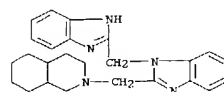
RN 475648-25-0 CAPLUS
 CN 3-Piperidineethanol, 1-[[1-[(1H-benzimidazol-2-ylmethyl)-1H-benzimidazol-2-yl]methyl]- (9CI) (CA INDEX NAME)



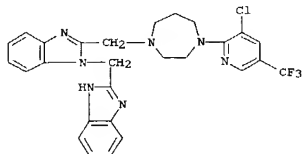
RN 475648-26-1 CAPLUS
 CN 2-Piperidineethanol, 1-[[1-[(1H-benzimidazol-2-ylmethyl)-1H-benzimidazol-2-yl]methyl]- (9CI) (CA INDEX NAME)



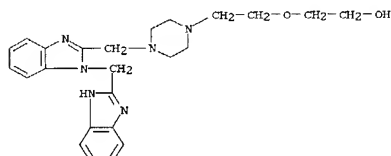
RN 475648-27-2 CAPLUS
 CN Isoquinoline, 2-[[1-[(1H-benzimidazol-2-ylmethyl)-1H-benzimidazol-2-yl]methyl]-decahydro- (9CI) (CA INDEX NAME)



L70 ANSWER 3 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
RN 475648-28-3 CAPLUS
CN 1H-Benzimidazole, 1-[(1H-benzimidazol-2-ylmethyl)-2-[[4-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]hexahydro-1H-1,4-diazepin-1-yl]methyl]-9(1C) (CA INDEX NAME)

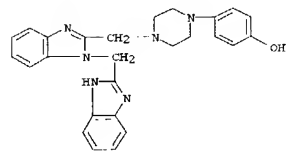


RN 475648-29-4 CAPLUS
CN Ethanol, 2-[2-[4-[[1-(1H-benzimidazol-2-ylmethyl)-1H-benzimidazol-2-yl]methyl]-1-piperazinyl]ethoxy]- (9CI) (CA INDEX NAME)

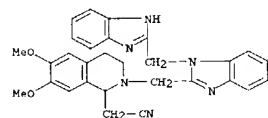


RN 475648-30-7 CAPLUS
CN 1H-Benzimidazole, 1-(1H-benzimidazol-2-ylmethyl)-2-([4,4'-bipiperidin]-1-ylmethyl)- (9CI) (CA INDEX NAME)

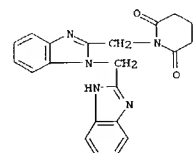
L70 ANSWER 3 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 475648-35-2 CAPLUS
CN 1-Isoquinolineacetonitrile, 2-[[1-(1H-benzimidazol-2-ylmethyl)-1H-benzimidazol-2-yl]methyl]-1,2,3,4-tetrahydro-6,7-dimethoxy- (SCI) (CA INDEX NAME)

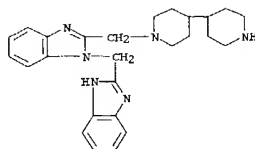


RN 475648-36-3 CAPLUS
CN 2,6-Piperidinedione, 1-[[[1-(1H-benzimidazol-2-ylmethyl)-1H-benzimidazol-2-yl]methyl]- (9CI) (CA INDEX NAME)

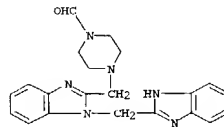


RN 475648-39-6 CAFLUS
CN 1H-Benzimidazole, 1-(1H-benzimidazol-2-ylmethyl)-2-[[4-(2,4-dimethylphenyl)-1-piperazinyl]methyl]- (9CI) (CA INDEX NAME)

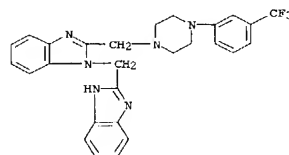
L70 ANSWER 3 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 475648-31-8 CAPLUS
CN 1-Piperazinecarboxaldehyde, 4-[[1-(1H-benzimidazol-2-yl)methyl]-1H-benzimidazol-2-yl)methyl]- (9CI) (CA INDEX NAME)

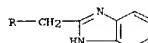
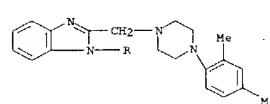


RN 475648-32-9 CAPLUS
CN 1H-Benzimidazole, 1-([1H-benzimidazol-2-ylmethyl]-2-[[4-[3-(trifluoromethyl)phenyl]-1-piperazinyl]methyl]- (9CI) (CA INDEX NAME)

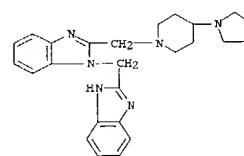


RN 475648-33-0 CAPLUS
CN Phenol, 4-[4-[[1-(1H-benzimidazol-2-yl)methyl]-1H benzimidazol-2-yl]methyl]-
1-piperazinyl]- (9CI) (CA INDEX NAME)

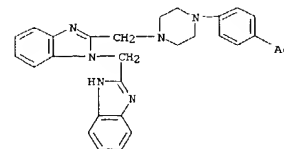
L70 ANSWER 3 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 475648-40-9 CAPLUS
CN 1H-Benzimidazole, 1-(1H-benzimidazol-2-ylmethyl)-2-[[4-(1-pyrrolidinyl)-1-piperidinyl]methyl]- (9CI) (CA INDEX NAME)



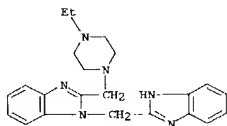
RN 475648-41-0 CAPLUS
CN Ethanone, 1-[4-(4-[[1-(1H-benzimidazol-2-ylmethyl)-1H-benzimidazol-2-ylmethyl]-1-piperazinyl]phenyl)- (9CI) (CA INDEX NAME)



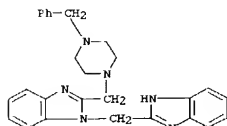
RN 475648-42-1 CAPLUS
CN 1H-Benzimidazole, 1-(1H-benzimidazol-2-ylmethyl)-2-[(4-ethyl-1-piperazinyl)methyl]- (9CI) (CA INDEX NAME)

10/019,376

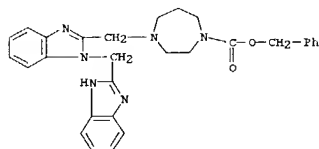
L70 ANSWER 3 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 475648-43-2 CAPLUS
CN 1H-Benzimidazole, 1-[(1H-benzimidazol-2-ylmethyl)-2-[[4-(phenylmethyl)-1-piperazinyl]methyl]- (9CI) (CA INDEX NAME)



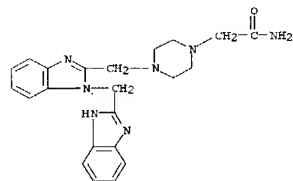
RN 475648-44-3 CAPLUS
CN 1H-1,4-Diazepine-1-carboxylic acid, 4-[[1-(1H-benzimidazol-2-ylmethyl)-1H-benzimidazol-2-yl]methyl]hexahydro-, phenylmethyl ester (9CI) (CA INDEX NAME)



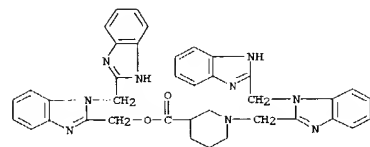
RN 475648-45-4 CAPLUS
CN 1H-Benzimidazole, 1-[(1H-benzimidazol-2-ylmethyl)-2-[(hexahydro-1(2H)-azocinyl)methyl]- (9CI) (CA INDEX NAME)

L70 ANSWER 3 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

RN 475649-02-6 CAPLUS
CN 1-Piperazineacetamide, 4-[[1-(1H-benzimidazol-2-ylmethyl)-1H-benzimidazol-2-yl]methyl]- (9CI) (CA INDEX NAME)

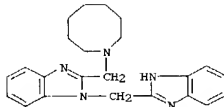


RN 475649-03-7 CAPLUS
CN 3-Piperidinecarboxylic acid, 1-[[1-(1H-benzimidazol-2-ylmethyl)-1H-benzimidazol-2-yl]methyl]-, [1-(1H-benzimidazol-2-ylmethyl)-1H-benzimidazol-2-yl]methyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

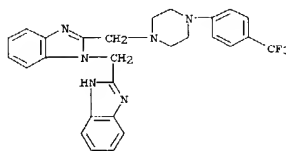
L70 ANSWER 3 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



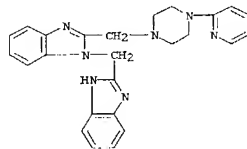
IT 475648-97-6P 475648-98-7P 475649-02-6P
475649-03-7P
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of benzimidazole derivs. as virucides for treating

Respiratory Syncytial Virus infections)

RN 475648-97-6 CAPLUS
CN 1H-Benzimidazole, 1-[(1H-benzimidazol-2-ylmethyl)-2-[[4-(trifluoromethyl)phenyl]-1-piperazinyl]methyl]- (9CI) (CA INDEX NAME)



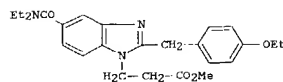
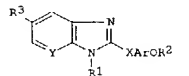
RN 475648-98-7 CAPLUS
CN 1H-Benzimidazole, 1-[(1H-benzimidazol-2-ylmethyl)-2-[[4-(2-pyridinyl)-1-piperazinyl]methyl]- (9CI) (CA INDEX NAME)



L70 ANSWER 4 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2002:832768 CAPLUS
DOCUMENT NUMBER: 137:337892
TITLE: Novel alkoxyarylbenzimidazoles as CB2 receptor agonists
INVENTOR(S): Cheng, Yun-Xing; Tomaszewski, Mirosław; Walpole, Christopher; Yang, Hua
PATENT ASSIGNEE(S): Astrazeneca AB, Gwed.
SOURCE: PCT Int. Appl., 112 pp.
CODEN: FIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002085866	A1	20021031	WO 2002-SE769	20020418
W: AE, AG, AL, AM, AT, AU, AZ, BA, BE, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZH, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TH, EF, EJ, CF, CG, CI, CM, GA, GN, GG, GW, HL, HR, NE, SN, TD, TG				
EP 1390350	A1	20040225	EP 2002-76420	20020418
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
NO 2003004665	A	20031210	NO 2003-4665	20031017
PRIORITY APPLN. INFO.: SE 2001-1387 A 20010420				
WO 2002-SE769 W 20020418				
OTHER SOURCE(S): MARPAT 137:337892				
G1				



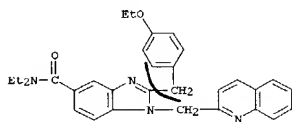
AB Title compds. I (R1 = (un)substituted alkyl, alkenyl; R2 = alkyl,

10/019,376

L70 ANSWER 4 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
 fluoroalkyl, cycloalkyl; R3 = (un)substituted H2NCONH, HCONH, HO2CONH,
 H2NCONH, HSO2NH, H2NCO2, H2NCH2, H2NCS, H2NCO, NH2, acyl; X =
 (un)substituted CH2, NR, CO, CH2CH2, CH=CH, O, S, S(O), SO2; Y = CH, N; Ar
 = (un)substituted aryl were prep'd. as CB2 receptor agonists in the
 management of pain. Thus, 4,3-F(2N)C6H3CONH2 was treated with
 H2NCH2CH2CO2Et followed by redn. of the nitro group and cyclization with
 4-EtOCC6H4CH2COCl to give the benzimidazole II, formed by
 transesterification during chromatog. II had Ki for human CB2 receptor
 binding of 142 nM.

IT 474018-06-9P
 RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological
 study); PREP (Preparation); USES (Uses)
 (preparation of novel alkoxyarylbenzimidazoles as CB2 receptor agonists)

RN 474018-06-9 CAPLUS
 CN 1H-Benzimidazole-5-carboxamide, 2-[(4-ethoxyphenyl)methyl]-N,N-diethyl-1-
 (2-quinolinylmethyl)- (9CI) (CA INDEX NAME)

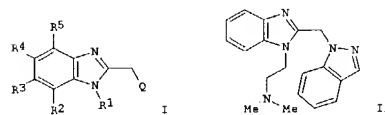


REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L70 ANSWER 5 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCSSION NUMBER: 2002:556140 CAPLUS
 DOCUMENT NUMBER: 137:125159
 TITLE: Preparation and antiviral activity of heterocyclic
 substituted 2-methylbenzimidazole antiviral agents
 INVENTOR(S): Yu, Kun-Long; Civiello, Rita L.; Combrink, Keith D.;
 Gulgere, Ratice Belgins; Sin, Ny; Wang, Xiangdong;
 Maxwell, Nicholas; Venables, Brian Lee; Zhang, Yi;
 Pearce, Bradley C.; Yin, Zhiwei; Thuring, Jan Willem
 PATENT ASSIGNEE(S): USA
 SOURCE: U.S. Pat. Appl. Publ., 89 pp.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2002099208	A1	20020725	US 2001-994012	20011116
WO 2002062290	A2	20020815	WO 2001-US45149	20011120
WO 2002062290	A3	20021121		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
 CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, FR, GB, GD, GE, GH,
 GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
 LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL,
 PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TT, TZ, UA, UG,
 UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, BG, BR, BU, BT, CH,
 CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,
 BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
 EP 1343499 A2 20030917
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
 PRIORITY APPLN. INFO.: US 2000-257139P P 20001220
 WO 2001-US45149 W 20011120
 OTHER SOURCE(S): MARPAT 137:125159
 GI

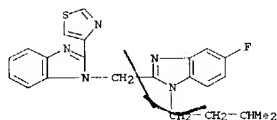


AR The title compds. [I: R1 = (CRab)nX; R2, R3 = independently H, Cl-6
 (un)substituted alkyl; X = H, Cl-6 (un)substituted alkyl; n = 1-6; R4, R5
 = independently H or halogen; R3, R4 = independently H, halogen, Cl-6

L70 ANSWER 5 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
 (un)substituted alkyl; Q = heterocyclic group], useful in the treatment of
 viral infections, more particularly, for the treatment of respiratory
 syncytial virus infection, were prep'd. E.g., a four-step synthesis of II,
 starting with 2-(chloromethyl)benzimidazole, was given. The antiviral
 activity of these compds. against respiratory syncytial virus (RSV) was
 det'd. in HEp-2 (ATCC CCL 23) cells. The title compds. I, disclosed
 herein, show antiviral activity with EC50s between 50 µM and 0.001
 µM.

IT 443985-64-6P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
 (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
 (Uses)
 (preparation and use of heterocyclic substituted 2-methyl-benzimidazole
 antiviral agents)

RN 443985-64-6 CAPLUS
 CN 1H-Benzimidazole, 5-fluoro-1-(3-methylbutyl)-2-[(2-(4-thianolyl)-1H-
 benzimidazol-1-yl)methyl]- (9CI) (CA INDEX NAME)



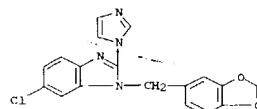
L70 ANSWER 6 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCSSION NUMBER: 2002:714395 CAPLUS
 DOCUMENT NUMBER: 136:335540
 TITLE: Use of PDE V inhibitors for improved fecundity in
 mammals
 INVENTOR(S): Westbrock, Simon Lempiere; Zanzinger, Johannes
 Friedrich
 PATENT ASSIGNEE(S): Pfizer Limited, UK; Pfizer Inc.
 SOURCE: Eur. Pat. Appl., 20 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1199070	A2	20020424	EP 2001-308684	20011011
EP 1199070	A3	20040317		
US 2003018036	A1	20030123	US 2001-982445	20011018
US 6548509	B2	20030415		
JP 2002220346	A2	20020809	JP 2001-322195	20011019
ZA 2001008617	A	20030422	ZA 2001-8617	20011019
US 2003018037	A1	20030123	US 2002-229534	20020827
			GB 2000-23782	A 20001020
			US 2000-25338P	P 20001128
			US 2001-982445	A1 20011018

AB The invention relates to the use of a cyclic guanosine 3',5'-monophosphate
 phosphodiesterase type five (cGMP PDE V) inhibitor for increasing
 fecundity in a mammal by one or more of (a) promoting the growth of an
 oocyte, zygote, blastocyst, embryo and/or fetus, (b) increasing the rate
 or probability of survival of an embryo and/or fetus and (c) increasing
 the birth weight of a progeny, or for increasing milk productivity. I.v.
 and
 tablet formulations are exemplified. Formulations and packs containing the
 PDE V inhibitors for pharmaceutical or veterinary use are claimed.

IT 150452-72-5
 RL: AGR (Agricultural use); PAC (Pharmacological activity); THU
 (Therapeutic use); BIOL (Biological study); USES (Uses)
 (use of PDE V inhibitors for improved fecundity in mammals)

RN 150452-72-5 CAPLUS
 CN 1H-Benzimidazole, 1-(1,3-benzodioxol-5-ylmethyl)-6-chloro-2-(1H-imidazol-1-
 yl)- (9CI) (CA INDEX NAME)



L70 ANSWER 7 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

ACCESSION NUMBER: 2001:136768 CAPLUS

DOCUMENT NUMBER: 134:178557

TITLE: Preparation of 2-(4-(aminophenylethyl)-1-methylbenzimidazole-5-carboxamides as tryptase inhibitors

INVENTOR(S): Anderskewitz, Ralf; Braun, Christine; Briem, Hans; Diase, Bernd; Hoerke, Christoph; Jennewein, Hans

PATENT ASSIGNEE(S): Boehringer Ingelheim Pharma K.-G., Germany

SOURCE: Ger. Offen., 92 pp.

CODEN: GWXXRX

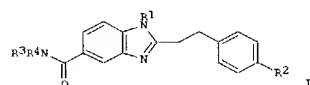
DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19939463	A1	20010222	DE 1999-19939463	19990820
US 6512000	B1	20030128	US 2000-634958	20000808
WO 2001014342	A1	20010301	WO 2000-EP8037	20000817
W: AE, AU, BG, BR, CA, CN, CZ, EE, HR, HU, ID, IL, IN, JP, KR, LT, LV, MX, NO, NZ, PL, RO, SG, SI, SK, TR, UA, US, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
EP 1210335	A1	20020605	EP 2000-951526	20000817
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, IT, LV, PT, RO, CY				
JP 2003507459	T2	20030225	JP 2001-518431	20000817
PRIORITY APPLN. INFO.: DE 1999-19939463 A 19990820				
US 1999-153423P P 19990910				
WO 2000-EP8037 W 20000817				
OTHER SOURCE(S): MARPAT 134:178557				
GI				

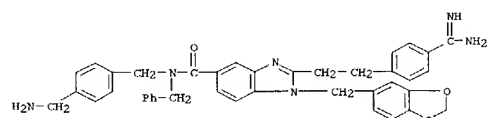


AB Use of title compds. [1: R1 = (substituted) alkyl, phenylalkyl, heterocyclyl, heterocyclylalkyl; R2 = C:(NH)NH2, CH2NH2; R3, R4 = H, (substituted) alkyl, phenylalkyl, heterocyclyl, heterocyclylalkyl, cycloalkyl, naphthyl, Ph; R3&R4 = (substituted) heterocyclyl, for treatment/prevention of diseases in which tryptase inhibition is of benefit, was claimed. Thus, 2-[2-(4-(cyanophenylethyl))-1-methylbenzimidazole-5-ylcarboxylic acid (preparation given), N-(4-cyanobenzyl)-N-ethoxycarbonylmethylamine, NMM, and TBTU were stirred together in DMF for 16 h at room temperature to give 2-[2-(4-(cyanophenylethyl))-

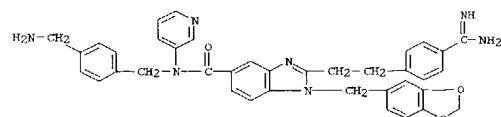
L70 ANSWER 7 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

ACCESSION NUMBER: 2001:136768 CAPLUS

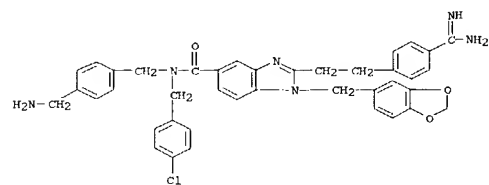
TITLE: 1H-Benzimidazole-5-carboxamide, 2-[2-(4-(aminomethyl)phenyl)ethyl]-N-[[4-(aminomethyl)phenyl]methyl]-1-(1,3-benzodioxol-5-ylmethyl)-N-(3-methoxyphenyl)methyl]- (9CI) (CA INDEX NAME)



RN 326860-96-2 CAPLUS
CN 1H-Benzimidazole-5-carboxamide, 2-[2-(4-(aminomethyl)phenyl)ethyl]-N-[[4-(aminomethyl)phenyl]methyl]-1-(1,3-benzodioxol-5-ylmethyl)-N-(3-pyridinyl)- (9CI) (CA INDEX NAME)



RN 326861-41-0 CAPLUS
CN 1H-Benzimidazole-5-carboxamide, 2-[2-(4-(aminomethyl)phenyl)ethyl]-N-[[4-(aminomethyl)phenyl]methyl]-1-(1,3-benzodioxol-5-ylmethyl)-N-[(4-chlorophenyl)methyl]- (9CI) (CA INDEX NAME)



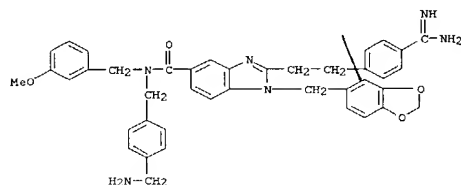
RN 326861-56-7 CAPLUS
CN 1H-Benzimidazole-5-carboxamide, 2-[2-(4-(aminomethyl)phenyl)ethyl]-N-[[4-(aminomethyl)phenyl]methyl]-1-(1,3-benzodioxol-5-ylmethyl)-N-[[3-

L70 ANSWER 7 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

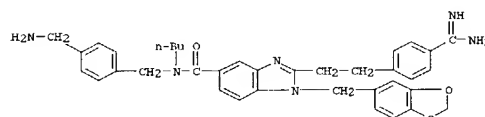
TITLE: 1-methylbenzimidazole-5-yl-N-(4-cyanobenzyl)-N-(ethoxycarbonylmethyl)amide, which was treated with NH3 to give 894 2-[2-(4-(aminophenylethyl))-1-methylbenzimidazole-5-yl-N-(4-aminobenzyl)-N-(ethoxycarbonylmethyl)amide. I at 10 μM inhibited tryptase by 51-77%. I may be prep'd. by solid phase synthesis.

IT 326860-79-1P 326860-85-9P 326860-96-2P
326861-25-0P 326861-41-0P 326861-56-7P
326861-92-1P 326862-08-2P 326862-22-0P
326862-42-4P 326862-76-4P 326862-92-4P
326863-08-5P 326863-24-5P 326863-42-7P
326863-74-8P 326864-90-5P 326864-03-3P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of (aminophenylethyl)methylbenzimidazolecarboxamides as tryptase inhibitors)

RN 326860-79-1 CAPLUS
CN 1H-Benzimidazole-5-carboxamide, 2-[2-(4-(aminomethyl)phenyl)ethyl]-N-[[4-(aminomethyl)phenyl]methyl]-1-(1,3-benzodioxol-5-ylmethyl)-N-[(3-methoxyphenyl)methyl]- (9CI) (CA INDEX NAME)



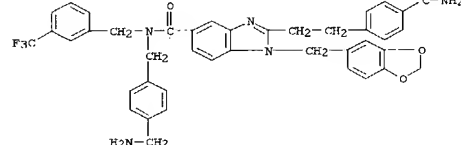
RN 326860-85-9 CAPLUS
CN 1H-Benzimidazole-5-carboxamide, 2-[2-(4-(aminomethyl)phenyl)ethyl]-N-[[4-(aminomethyl)phenyl]methyl]-1-(1,3-benzodioxol-5-ylmethyl)-N-butyl- (9CI) (CA INDEX NAME)



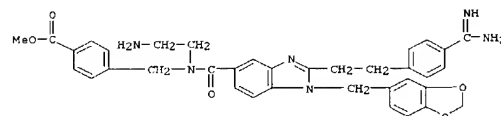
L70 ANSWER 7 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

ACCESSION NUMBER: 2001:136768 CAPLUS

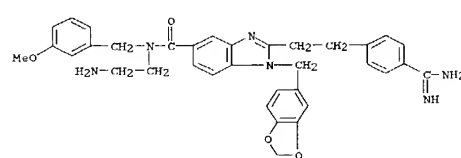
TITLE: 1H-Benzimidazole-5-carboxamide, 2-[2-(4-(aminomethyl)phenyl)ethyl]-N-[[4-(aminomethyl)phenyl]methyl]-1-(1,3-benzodioxol-5-ylmethyl)-N-(3-methoxyphenyl)methyl]- (9CI) (CA INDEX NAME)



RN 326861-92-1 CAPLUS
CN Benzoic acid, 4-[[[(2-aminomethyl)-2-[2-(4-(aminomethyl)phenyl)ethyl]-1-(1,3-benzodioxol-5-ylmethyl)-1H-benzimidazole-5-yl]carbonyl]amino]methyl]-, methyl ester (9CI) (CA INDEX NAME)



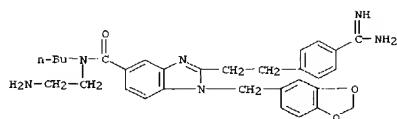
RN 326862-08-2 CAPLUS
CN 1H-Benzimidazole-5-carboxamide, N-(2-aminomethyl)-2-[2-(4-(aminomethyl)phenyl)ethyl]-1-(1,3-benzodioxol-5-ylmethyl)-N-[(3-methoxyphenyl)methyl]- (9CI) (CA INDEX NAME)



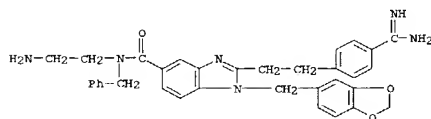
RN 326862-22-0 CAPLUS
CN 1H-Benzimidazole-5-carboxamide, N-(2-aminomethyl)-2-[2-(4-(aminomethyl)phenyl)ethyl]-1-(1,3-benzodioxol-5-ylmethyl)-N-butyl-

10/019,376

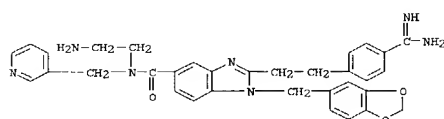
L70 ANSWER 7 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
(9CI) (CA INDEX NAME)



RN 326862-42-4 CAPLUS
CN 1H-Benzimidazole-5-carboxamide, N-(2-aminoethyl)-2-[2-[4-(aminomethyl)phenyl]ethyl]-1-(1,3-benzodioxol-5-ylmethyl)-N-(phenylmethyl)- (9CI) (CA INDEX NAME)

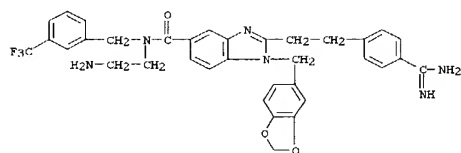


RN 326862-76-4 CAPLUS
CN 1H-Benzimidazole-5-carboxamide, N-(2-aminoethyl)-2-[2-[4-(aminomethyl)phenyl]ethyl]-1-(1,3-benzodioxol-5-ylmethyl)-N-(3-pyridinylmethyl)- (9CI) (CA INDEX NAME)

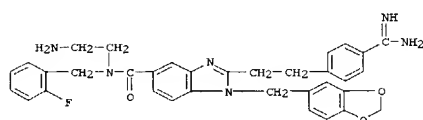


RN 326862-92-4 CAPLUS
CN 1H-Benzimidazole-5-carboxamide, N-(2-aminoethyl)-2-[2-[4-(aminomethyl)phenyl]ethyl]-1-(1,3-benzodioxol-5-ylmethyl)-N-(cyclohexylmethyl)- (9CI) (CA INDEX NAME)

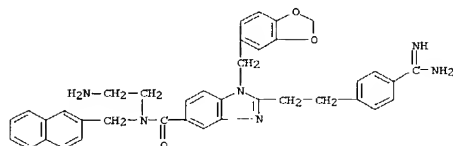
L70 ANSWER 7 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 326863-74-5 CAPLUS
CN 1H-Benzimidazole-5-carboxamide, N-(2-aminoethyl)-2-[2-[4-(aminomethyl)phenyl]ethyl]-1-(1,3-benzodioxol-5-ylmethyl)-N-[(2-fluorophenyl)methyl]- (9CI) (CA INDEX NAME)

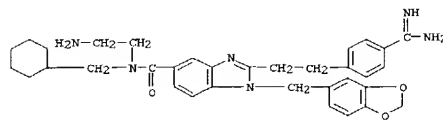


RN 326863-90-5 CAPLUS
CN 1H-Benzimidazole-5-carboxamide, N-(2-aminoethyl)-2-[2-[4-(aminomethyl)phenyl]ethyl]-1-(1,3-benzodioxol-5-ylmethyl)-N-(2-naphthalenylmethyl)- (9CI) (CA INDEX NAME)

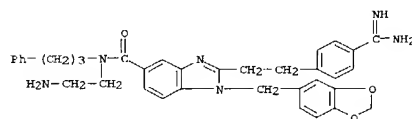


RN 326864-03-3 CAPLUS
CN Benzoic acid, 4-[[[2-[2-[4-(aminomethyl)phenyl]ethyl]-1-(1,3-benzodioxol-5-ylmethyl)-1H-benzimidazol-5-yl]carbonyl]methyl]-, methyl ester (9CI) (CA INDEX NAME)

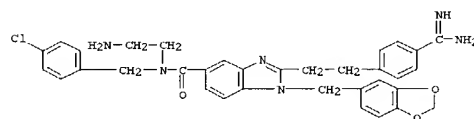
L70 ANSWER 7 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 326863-08-5 CAPLUS
CN 1H-Benzimidazole-5-carboxamide, N-(2-aminoethyl)-2-[2-[4-(aminomethyl)phenyl]ethyl]-1-(1,3-benzodioxol-5-ylmethyl)-N-(3-phenylpropyl)- (9CI) (CA INDEX NAME)

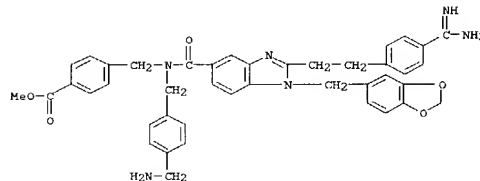


RN 326863-24-5 CAPLUS
CN 1H-Benzimidazole-5-carboxamide, N-(2-aminoethyl)-2-[2-[4-(aminomethyl)phenyl]ethyl]-1-(1,3-benzodioxol-5-ylmethyl)-N-[(4-chlorophenyl)methyl]- (9CI) (CA INDEX NAME)



RN 326863-42-7 CAPLUS
CN 1H-Benzimidazole-5-carboxamide, N-(2-aminoethyl)-2-[2-[4-(aminomethyl)phenyl]ethyl]-1-(1,3-benzodioxol-5-ylmethyl)-N-[(3-trifluoromethyl)phenyl]methyl]- (9CI) (CA INDEX NAME)

L70 ANSWER 7 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

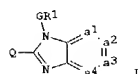


00/019,376

L70 ANSWER 8 OF 43 CAPLUS COPYRIGHT 2004 ACS ON STN
 ACCESSION NUMBER: 200112448 CAPLUS
 DOCUMENT NUMBER: 134186251
 TITLE: Preparation of benzimidazoles as respiratory syncytial virus replication inhibitors.
 INVENTOR(S): Janssens, Frans Eduard; Lacrampe, Jean Fernand Armand; Guillemont, Jerome Emile Georges; Venet, Marc Gaston; Andries, Koenraad Jozef Lodewijk Marcel
 PATENT ASSIGNEE(S): Janssen Pharmaceutica N.V., Belg.
 SOURCE: PCT Int. Appl., 102 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001000615	A1	20010104	WO 2000-EP5677	20000620
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BE, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KR, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, EE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SF, RJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
RN 200011997	A	20020305	EP 2000-11997	20000620
EP 1196410	A1	20020417	EP 2000-936899	20000620
EP 1196410	B1	20040218		
R:	AT, EE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO			
JP 2003503403	T2	20030128	JP 2001-507023	20000620
KE 200100694	A	20030217	EE 2001-694	20000620
HR 2001000534	A1	20030630	HR 2001-934	20011219
ZA 2001010473	A	20030320	ZA 2001-10473	20011220
NO 2001006370	A	20011227	NO 2001-6370	20011227
RG 106288	A	20021031	RG 2002-106288	20020108
PRIORITY APPL. INFO.:			EP 1999-202089 A	19990628
			WO 2000-EP5677 W	20000620

OTHER SOURCE(S): MARPAT 134:86251
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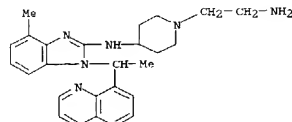
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L70 ANSWER 8 OF 43 CAPLUS COPYRIGHT 2004 ACS ON STN (Continued)

317588-30-0P	317588-34-4P	317588-39-9P
317588-47-9P	317588-66-0P	317588-66-2P
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317592-91-9P		

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. of benzimidazoles as respiratory syncytial virus replication inhibitors)

RN 317585-54-9 CAPLUS
 CN 1H-Benzimidazol-2-amine, N-[1-(2-aminoethyl)-4-piperidinyl]-4-methyl-1-[(8-quinolinyl)ethyl]- (9CI) (CA INDEX NAME)



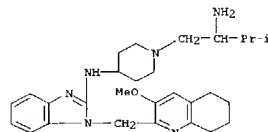
RN 317585-60-7 CAPLUS
 CN 1H-Benzimidazol-2-amine, N-[1-(2-amino-3-methylbutyl)-4-piperidinyl]-1-(2-bromo-5,6,7,8-tetrahydro-8-quinolinyl)-, trihydrochloride (9CI) (CA INDEX NAME)

L70 ANSWER 8 OF 43 CAPLUS COPYRIGHT 2004 ACS ON STN (Continued)
 (substituted) heterocycles: A = (substituted) alkylene; X1 = imino, S, SO, SO2, O, CH2, CO, CH(OH), etc.; R1 = (substituted) bicyclic heterocycle; G = bond, (substituted) alkylene; R2 = H, CHO, alkylcarbonyl, pyrrolidinyl, piperidinyl, homopiperidinyl, etc.; R4 = H, alkyl, aralkyl, vered prep. Thus, 1-[4-[[1-(2-quinolinylmethyl)-1H-benzimidazol-2-yl]amino]-1-piperidinyl]-3-methyl-2-butanone was hydrogenated with PhCH2NH2 in MeOH over Pd/C to give N-[1-(2-amino-3-methylbutyl)-4-piperidinyl]-1-(2-quinolinylmethyl)-1H-benzimidazol-2-amine and N-[1-(2-amino-3-methylbutyl)-4-piperidinyl]-1-[(1,2,3,4-tetrahydro-2-quinolinyl)methyl]-1H-benzimidazol-2-amine tetrahydrochloride. Tested I inhibited respiratory syncytial virus replication with IC50 = 0.0004-1.5849 µM.

IT RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 (preparation of benzimidazoles as respiratory syncytial virus replication inhibitors)

RN 317589-25-6 CAPLUS

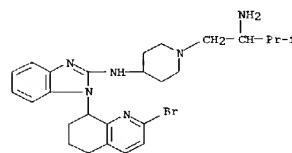
CN 1H-Benzimidazol-2-amine, N-[1-(2-amino-3-methylbutyl)-4-piperidinyl]-1-[(5,6,7,8-tetrahydro-3-methoxy-2-quinolinyl)methyl]-, tetrahydrochloride (9CI) (CA INDEX NAME)



● 4 HCl

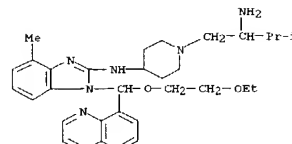
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L70 ANSWER 8 OF 43 CAPLUS COPYRIGHT 2004 ACS ON STN (Continued)

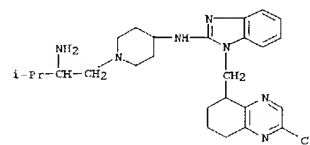


● 3 HCl

RN 317585-64-1 CAPLUS
 CN 1H-Benzimidazol-2-amine, N-[1-(2-amino-3-methylbutyl)-4-piperidinyl]-1-[(2-ethoxyethoxy)-8-quinolinylmethyl]-4-methyl- (9CI) (CA INDEX NAME)



RN 317585-69-6 CAPLUS
 CN 1H-Benzimidazol-2-amine, N-[1-(2-amino-3-methylbutyl)-4-piperidinyl]-1-[(2-chloro-5,6,7,8-tetrahydro-5-quinoxaliny)methyl]-, trihydrochloride (9CI) (CA INDEX NAME)

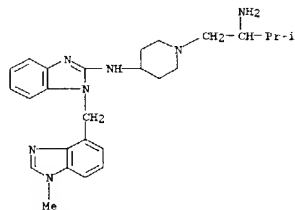


● 3 HCl

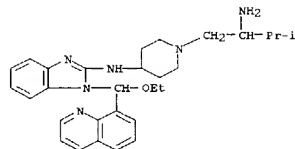
10/019,376

L70 ANSWER 8 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

RN 317585-74-3 CAPLUS
CN 1H-Benzimidazol-2-amine, N-[1-(2-amino-3-methylbutyl)-4-piperidinyl]-1-[(1-methyl-1H-benzimidazol-4-yl)methyl]- (9CI) (CA INDEX NAME)

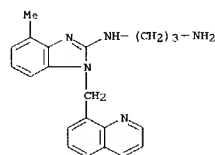


RN 317585-79-8 CAPLUS
CN 1H-Benzimidazol-2-amine, N-[1-(2-amino-3-methylbutyl)-4-piperidinyl]-1-(ethoxy-8-quinolinylmethyl)- (9CI) (CA INDEX NAME)



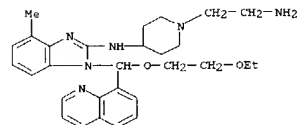
RN 317585-83-4 CAPLUS
CN 1H-Benzimidazol-2-amine, N-[1-(2-amino-3-methylbutyl)-4-piperidinyl]-4-methyl-1-[(5,6,7,8-tetrahydro-5-quinoxaliny)methyl]- (9CI) (CA INDEX NAME)

L70 ANSWER 8 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



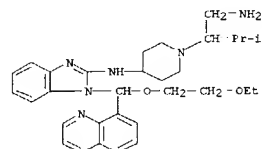
● 3 HCl

RN 317586-09-7 CAPLUS
CN 1H-Benzimidazol-2-amine, N-[1-(2-aminoethyl)-4-piperidinyl]-1-[(2-ethoxyethoxy)-8-quinolinylmethyl]-4-methyl-, trihydrochloride (9CI) (CA INDEX NAME)



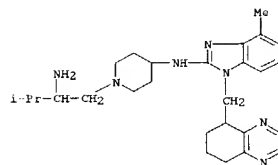
● 3 HCl

RN 317586-19-9 CAPLUS
CN 1H-Benzimidazol-2-amine, N-[1-(1-(aminomethyl)-2-methylpropyl)-4-piperidinyl]-1-[(2-ethoxyethoxy)-8-quinolinylmethyl]- (9CI) (CA INDEX NAME)

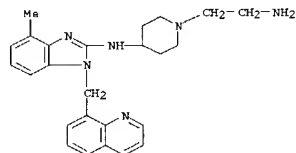


Page 15

L70 ANSWER 8 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



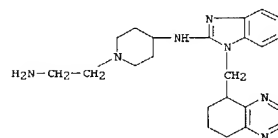
RN 317586-02-0 CAPLUS
CN 1H-Benzimidazol-2-amine, N-[1-(2-aminoethyl)-4-piperidinyl]-4-methyl-1-(8-quinolinylmethyl)- (9CI) (CA INDEX NAME)



RN 317586-05-3 CAPLUS
CN 1,3-Propanediamine, N-[4-methyl-1-(8-quinolinylmethyl)-1H-benzimidazol-2-yl]-, trihydrochloride (9CI) (CA INDEX NAME)

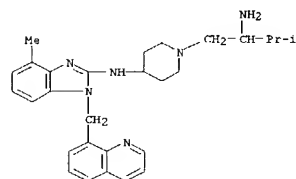
L70 ANSWER 8 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

RN 317586-33-7 CAPLUS
CN 1H-Benzimidazol-2-amine, N-[1-(2-aminoethyl)-4-piperidinyl]-1-[(5,6,7,8-tetrahydro-5-quinoxaliny)methyl]-, trihydrochloride (9CI) (CA INDEX NAME)



● 3 HCl

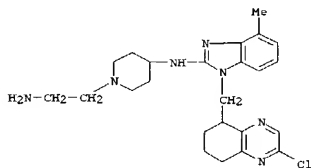
RN 317586-40-6 CAPLUS
CN 1H-Benzimidazol-2-amine, N-[1-(2-amino-3-methylbutyl)-4-piperidinyl]-4-methyl-1-(8-quinolinylmethyl)- (9CI) (CA INDEX NAME)



RN 317586-45-1 CAPLUS
CN 1H-Benzimidazol-2-amine, N-[1-(2-aminoethyl)-4-piperidinyl]-1-[(2-chloro-5,6,7,8-tetrahydro-5-quinoxaliny)methyl]-4-methyl-, trihydrochloride (9CI) (CA INDEX NAME)

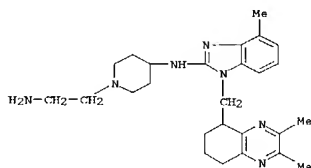
10/019,376

L70 ANSWER 8 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



● 3 HCl

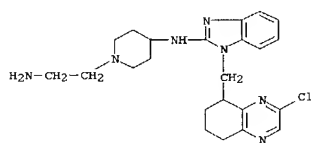
RN 317586-50-8 CAPLUS
CN 1H-Benzimidazol-2-amine, N-[1-(2-aminoethyl)-4-piperidinyl]-4-methyl-1-[(5,6,7,8-tetrahydro-2,3-dimethyl-5-quinoxalyl)methyl]-, trihydrochloride (9CI) (CA INDEX NAME)



● 3 HCl

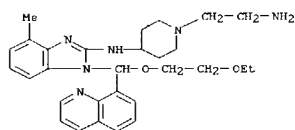
RN 317586-55-3 CAPLUS
CN 1H-Benzimidazol-2-amine, N-[1-(2-amino-3-methylbutyl)-4-piperidinyl]-1-[(2-ethoxyethoxy)-8-quinolylmethyl]- (9CI) (CA INDEX NAME)

L70 ANSWER 8 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

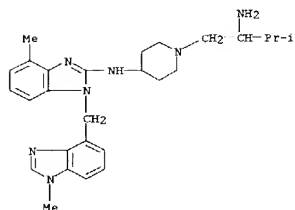


● 3 HCl

RN 317586-70-2 CAPLUS
CN 1H-Benzimidazol-2-amine, N-[1-(2-aminoethyl)-4-piperidinyl]-1-[(2-ethoxyethoxy)-8-quinolylmethyl]-4-methyl- (9CI) (CA INDEX NAME)



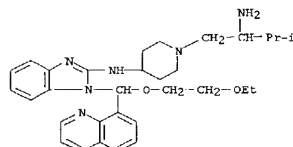
RN 317586-82-6 CAPLUS
CN 1H-Benzimidazol-2-amine, N-[1-(2-amino-3-methylbutyl)-4-piperidinyl]-4-methyl-1-[(1-methyl-1H-benzimidazol-4-yl)methyl]- (9CI) (CA INDEX NAME)



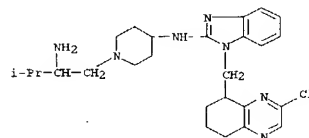
RN 317586-87-1 CAPLUS

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L70 ANSWER 8 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



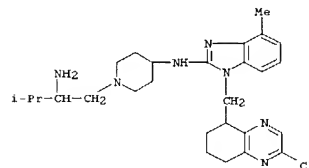
RN 317586-60-0 CAPLUS
CN 1H-Benzimidazol-2-amine, N-[1-(2-amino-3-methylbutyl)-4-piperidinyl]-1-[(3-chloro-5,6,7,8-tetrahydro-5-quinoxalyl)methyl]-, trihydrochloride (9CI) (CA INDEX NAME)



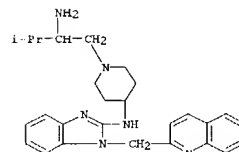
● 3 HCl

RN 317586-65-5 CAPLUS
CN 1H-Benzimidazol-2-amine, N-[1-(2-aminoethyl)-4-piperidinyl]-1-[(3-chloro-5,6,7,8-tetrahydro-5-quinoxalyl)methyl]-, trihydrochloride (9CI) (CA INDEX NAME)

L70 ANSWER 8 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
CN 1H-Benzimidazol-2-amine, N-[1-(2-amino-3-methylbutyl)-4-piperidinyl]-1-[(2-chloro-5,6,7,8-tetrahydro-5-quinoxalyl)methyl]-4-methyl- (9CI) (CA INDEX NAME)



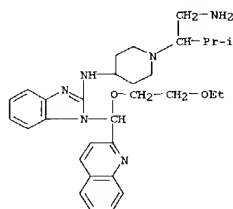
RN 317586-92-8 CAPLUS
CN 1H-Benzimidazol-2-amine, N-[1-(2-amino-3-methylbutyl)-4-piperidinyl]-1-(2-quinolylmethyl)- (9CI) (CA INDEX NAME)



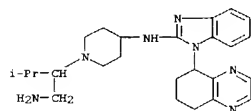
RN 317586-96-2 CAPLUS
CN 1H-Benzimidazol-2-amine, N-[1-(1-(aminomethyl)-2-methylpropyl)-4-piperidinyl]-1-[(2-ethoxyethoxy)-2-quinolylmethyl]- (9CI) (CA INDEX NAME)

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L70 ANSWER 8 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

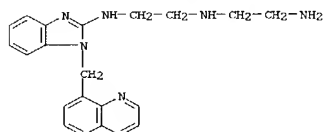


RN 317587-10-3 CAPLUS
CN 1H-Benzimidazol-2-amine, N-[1-[(aminomethyl)-2-methylpropyl]-4-piperidinyl]-1-[(5,6,7,8-tetrahydro-5-quinoxaliny)- (9CI) (CA INDEX NAME)

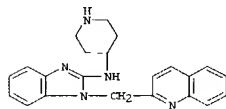


RN 317587-20-5 CAPLUS
CN 1H-Benzimidazol-2-amine, N-[1-(2-aminoethyl)-4-piperidinyl]-1-[[3-methyl-2-(trifluoromethyl)-3H-imidazo[4,5-b]pyridin-5-yl]methyl]-, trihydrochloride (9CI) (CA INDEX NAME)

L70 ANSWER 8 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

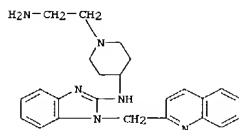


RN 317587-42-1 CAPLUS
CN 1H-Benzimidazol-2-amine, N-[1-(2-aminoethyl)-4-piperidinyl]-1-(2-quinolinylmethyl)-, dihydrochloride (9CI) (CA INDEX NAME)



● 2 HCl

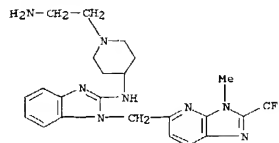
RN 317587-47-6 CAPLUS
CN 1H-Benzimidazol-2-amine, N-[1-(2-aminoethyl)-4-piperidinyl]-1-(2-quinolinylmethyl)-, tetrahydrochloride (9CI) (CA INDEX NAME)



● 4 HCl

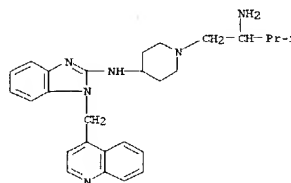
RN 317587-52-3 CAPLUS
CN 1H-Benzimidazol-2-amine, N-[1-(2-aminoethyl)-4-piperidinyl]-1-(8-quinolinylmethyl)-, dihydrochloride (9CI) (CA INDEX NAME)

L70 ANSWER 8 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



● 3 HCl

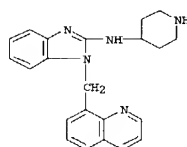
RN 317587-25-0 CAPLUS
CN 1H-Benzimidazol-2-amine, N-[1-(2-amino-3-methylbutyl)-4-piperidinyl]-1-(4-quinolinylmethyl)-, tetrahydrochloride (9CI) (CA INDEX NAME)



● 4 HCl

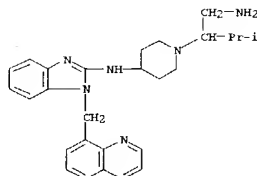
RN 317587-37-4 CAPLUS
CN 1,2-Ethanediamine, N-(2-aminoethyl)-N'-[1-(8-quinolinylmethyl)-1H-benzimidazol-2-yl]- (9CI) (CA INDEX NAME)

L70 ANSWER 8 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



● 2 HCl

RN 317587-57-8 CAPLUS
CN 1H-Benzimidazol-2-amine, N-[1-(2-aminoethyl)-4-piperidinyl]-1-(8-quinolinylmethyl)-, dihydrochloride (9CI) (CA INDEX NAME)

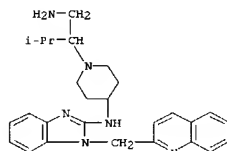


● 2 HCl

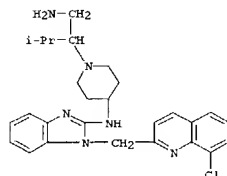
RN 317587-61-4 CAPLUS
CN 1H-Benzimidazol-2-amine, N-[1-(2-aminoethyl)-4-piperidinyl]-1-(8-quinolinylmethyl)-, dihydrochloride (9CI) (CA INDEX NAME)

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L70 ANSWER 8 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



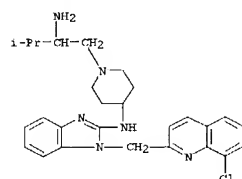
RN 317587-66-9 CAPLUS
CN 1H-Benzimidazol-2-amine, N-[1-[(aminomethyl)-2-methylpropyl]-4-piperidinyl]-1-[(8-chloro-2-quinolinyl)methyl]-, dihydrochloride (9CI)
(CA INDEX NAME)



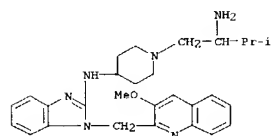
● 2 HCl

RN 317587-70-5 CAPLUS
CN 1H-Benzimidazol-2-amine, N-[1-(2-amino-3-methylbutyl)-4-piperidinyl]-1-[(8-chloro-2-quinolinyl)methyl]- (9CI) (CA INDEX NAME)

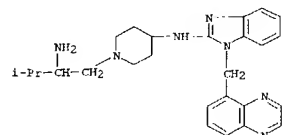
L70 ANSWER 8 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 317587-85-2 CAPLUS
CN 1H-Benzimidazol-2-amine, N-[1-(2-amino-3-methylbutyl)-4-piperidinyl]-1-[(3-methoxy-2-quinolinyl)methyl]- (9CI) (CA INDEX NAME)



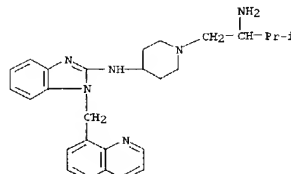
RN 317587-90-9 CAPLUS
CN 1H-Benzimidazol-2-amine, N-[1-(2-amino-3-methylbutyl)-4-piperidinyl]-1-[(5-quinoloxalyl)methyl]-, trihydrochloride (9CI) (CA INDEX NAME)



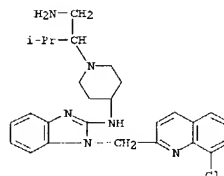
● 3 HCl

RN 317587-95-4 CAPLUS
CN 1H-Benzimidazol-2-amine, N-[1-(2-amino-3-methylbutyl)-4-piperidinyl]-1-[(2,3-dimethyl-5-quinolalyl)methyl]- (9CI) (CA INDEX NAME)

L70 ANSWER 8 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

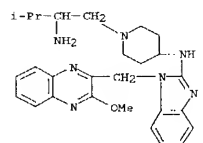


RN 317587-75-0 CAPLUS
CN 1H-Benzimidazol-2-amine, N-[1-[(aminomethyl)-2-methylpropyl]-4-piperidinyl]-1-[(8-chloro-2-quinolinyl)methyl]- (9CI) (CA INDEX NAME)

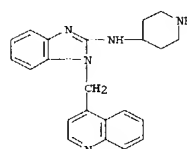


RN 317587-80-7 CAPLUS
CN 1H-Benzimidazol-2-amine, N-[1-(2-amino-3-methylbutyl)-4-piperidinyl]-1-[(8-chloro-2-quinolinyl)methyl]- (9CI) (CA INDEX NAME)

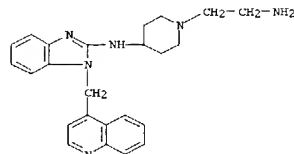
L70 ANSWER 8 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 317587-99-8 CAPLUS
CN 1H-Benzimidazol-2-amine, N-[1-(2-amino-3-methylbutyl)-4-piperidinyl]-1-[(4-quinolinyl)methyl]- (9CI) (CA INDEX NAME)



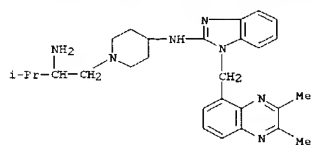
RN 317588-04-8 CAPLUS
CN 1H-Benzimidazol-2-amine, N-[1-(2-amino-3-methylbutyl)-4-piperidinyl]-1-[(4-quinolinyl)methyl]- (9CI) (CA INDEX NAME)



RN 317588-08-2 CAPLUS
CN 1H-Benzimidazol-2-amine, N-[1-(2-amino-3-methylbutyl)-4-piperidinyl]-1-[(2,3-dimethyl-5-quinolalyl)methyl]-, tetrahydrochloride (9CI) (CA INDEX NAME)

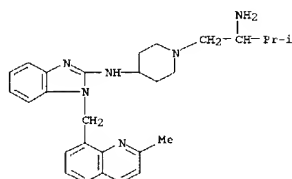
10/019,376

L70 ANSWER 8 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



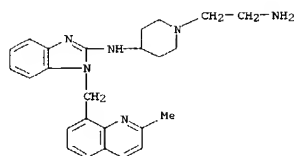
● 4 HCl

RN 317588-13-9 CAPLUS
CN 1H-Benzimidazol-2-amine, N-[1-(2-amino-3-methylbutyl)-4-piperidinyl]-1-[(2-methyl-8-quinolinyl)methyl]- (9CI) (CA INDEX NAME)

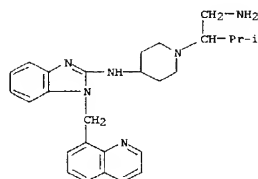


RN 317588-18-4 CAPLUS
CN 1H-Benzimidazol-2-amine, N-[1-(2-aminoethyl)-4-piperidinyl]-1-[(2-methyl-8-quinolinyl)methyl]- (9CI) (CA INDEX NAME)

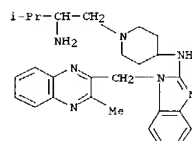
L70 ANSWER 8 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 317588-25-3 CAPLUS
CN 1H-Benzimidazol-2-amine, N-[1-(1-(aminomethyl)-2-methylpropyl)-4-piperidinyl]-1-(8-quinolinylmethyl)- (9CI) (CA INDEX NAME)

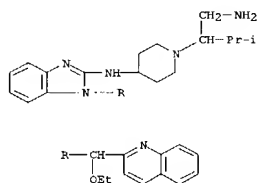


RN 317588-30-0 CAPLUS
CN 1H-Benzimidazol-2-amine, N-[1-(2-amino-3-methylbutyl)-4-piperidinyl]-1-[(3-methyl-2-quinoxalyl)methyl]- (9CI) (CA INDEX NAME)

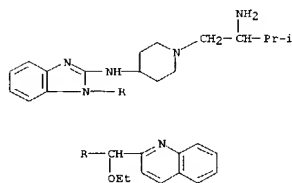


RN 317588-34-4 CAPLUS

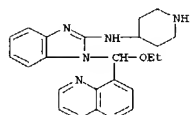
L70 ANSWER 8 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
CN 1H-Benzimidazol-2-amine, N-[1-(1-(aminomethyl)-2-methylpropyl)-4-piperidinyl]-1-(ethoxy-2-quinolinylmethyl)- (9CI) (CA INDEX NAME)



RN 317588-39-9 CAPLUS
CN 1H-Benzimidazol-2-amine, N-[1-(2-amino-3-methylbutyl)-4-piperidinyl]-1-(ethoxy-2-quinolinylmethyl)- (9CI) (CA INDEX NAME)

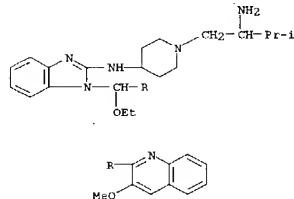


RN 317588-47-9 CAPLUS
CN 1H-Benzimidazol-2-amine, 1-(ethoxy-8-quinolinylmethyl)-N-4-piperidinyl- (9CI) (CA INDEX NAME)



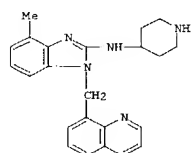
RN 317588-56-0 CAPLUS
CN 1H-Benzimidazol-2-amine, N-[1-(2-amino-3-methylbutyl)-4-piperidinyl]-1-

L70 ANSWER 8 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
CN 1H-Benzimidazol-2-amine, 1-(ethoxy-3-methoxy-2-quinolinylmethyl)-, trihydrochloride (9CI) (CA INDEX NAME)



● 3 HCl

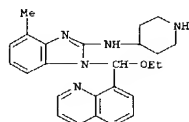
RN 317588-66-2 CAPLUS
CN 1H-Benzimidazol-2-amine, 4-methyl-N-4-piperidinyl-1-(8-quinolinylmethyl)- (9CI) (CA INDEX NAME)



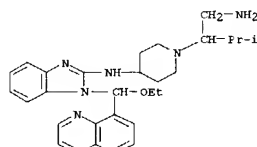
RN 317588-71-9 CAPLUS
CN 1H-Benzimidazol-2-amine, 1-(ethoxy-8-quinolinylmethyl)-4-methyl-N-4-piperidinyl- (9CI) (CA INDEX NAME)

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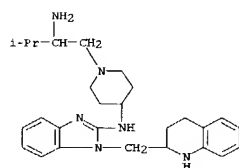
L70 ANSWER 8 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 317588-80-0 CAPLUS
CN 1H-Benzimidazol-2-amine, N-[1-(2-aminomethyl)-2-methylpropyl]-4-piperidinyl-1-(ethoxy-8-quinolinylmethyl)- (9CI) (CA INDEX NAME)

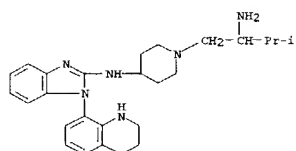


RN 317588-89-9 CAPLUS
CN 1H-Benzimidazol-2-amine, N-[1-(2-amino-3-methylbutyl)-4-piperidinyl]-1-[(1,2,3,4-tetrahydro-2-quinolinyl)methyl]-, tetrahydrochloride (9CI) (CA INDEX NAME)

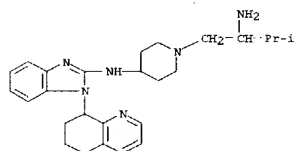


● 4 HCl

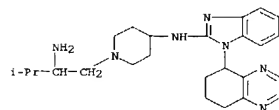
L70 ANSWER 8 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 317589-08-5 CAPLUS
CN 1H-Benzimidazol-2-amine, N-[1-(2-amino-3-methylbutyl)-4-piperidinyl]-1-[(5,6,7,8-tetrahydro-8-quinolinyl)methyl]- (9CI) (CA INDEX NAME)



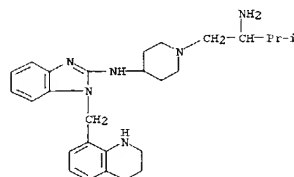
RN 317589-12-1 CAPLUS
CN 1H-Benzimidazol-2-amine, N-[1-(2-amino-3-methylbutyl)-4-piperidinyl]-1-[(5,6,7,8-tetrahydro-5-quinoxaliny)] (9CI) (CA INDEX NAME)



RN 317589-16-5 CAPLUS
CN 1H-Benzimidazol-2-amine, N-[1-(2-amino-3-methylbutyl)-4-piperidinyl]-1-[(5,6,7,8-tetrahydro-2-methyl-8-quinolinyl)methyl]-, tetrahydrochloride (9CI) (CA INDEX NAME)

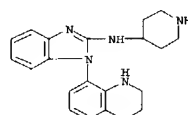
L70 ANSWER 8 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

RN 317588-93-5 CAPLUS
CN 1H-Benzimidazol-2-amine, N-[1-(2-amino-3-methylbutyl)-4-piperidinyl]-1-[(1,2,3,4-tetrahydro-8-quinolinyl)methyl]-, tetrahydrochloride (9CI) (CA INDEX NAME)



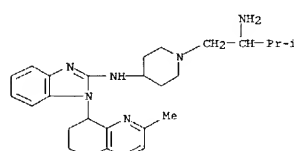
● 4 HCl

RN 317588-98-0 CAPLUS
CN 1H-Benzimidazol-2-amine, N-4-piperidinyl-1-(1,2,3,4-tetrahydro-8-quinolinyl)- (9CI) (CA INDEX NAME)



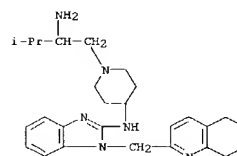
RN 317589-03-0 CAPLUS
CN 1H-Benzimidazol-2-amine, N-[1-(2-amino-3-methylbutyl)-4-piperidinyl]-1-[(1,2,3,4-tetrahydro-8-quinolinyl)methyl]- (9CI) (CA INDEX NAME)

L70 ANSWER 8 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



● 4 HCl

RN 317589-20-1 CAPLUS
CN 1H-Benzimidazol-2-amine, N-[1-(2-amino-3-methylbutyl)-4-piperidinyl]-1-[(5,6,7,8-tetrahydro-2-quinolinyl)methyl]-, tetrahydrochloride (9CI) (CA INDEX NAME)

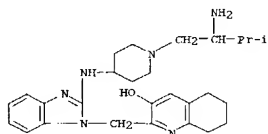


● 4 HCl

RN 317589-30-3 CAPLUS
CN 3-Quinololinol, 2-[[[2-[[[1-(2-amino-3-methylbutyl)-4-piperidinyl]amino]-1H-benzimidazol-1-yl]methyl]-5,6,7,8-tetrahydro-], tetrahydrochloride (9CI) (CA INDEX NAME)

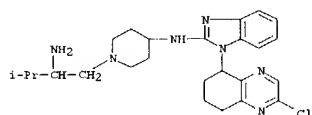
10/019,376

L70 ANSWER 8 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



● 4 HCl

RN 317589-34-7 CAPLUS
CN 1H-Benzimidazol-2-amine, N-[1-(2-amino-3-methylbutyl)-4-piperidinyl]-1-(2-chloro-5,6,7,8-tetrahydro-5-quinoxaliny)-, trihydrochloride (9CI) (CA INDEX NAME)

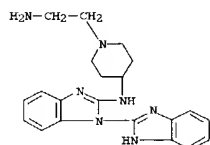


● 3 HCl

RN 317589-39-2 CAPLUS
CN 1H-Benzimidazol-2-amine, N-[1-(2-aminoethyl)-4-piperidinyl]-1-(5,6,7,8-tetrahydro-5-quinoxaliny)-, trihydrochloride (9CI) (CA INDEX NAME)

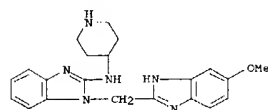
L70 ANSWER 8 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

RN 317589-52-9 CAPLUS
CN [1,2'-Bi-1H-benzimidazol]-2-amine, N-[1-(2-aminoethyl)-4-piperidinyl]-, tetrahydrochloride (9CI) (CA INDEX NAME)

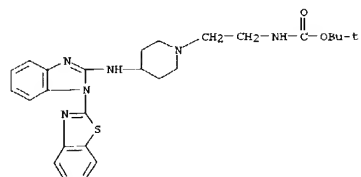


● 4 HCl

RN 317589-57-4 CAPLUS
CN 1H-Benzimidazol-2-amine, 1-[(5-methoxy-1H-benzimidazol-2-yl)methyl]-N-4-piperidinyl- (9CI) (CA INDEX NAME)

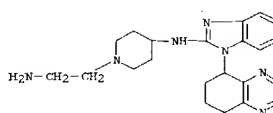


RN 317589-62-1 CAPLUS
CN Carbamic acid, [2-[4-[[1-(2-benzothiazolyl)-1H-benzimidazol-2-yl]amino]-1-piperidinyl]ethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



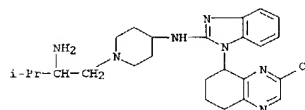
Page 21

L70 ANSWER 8 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



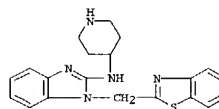
● 3 HCl

RN 317589-43-8 CAPLUS
CN 1H-Benzimidazol-2-amine, N-[1-(2-amino-3-methylbutyl)-4-piperidinyl]-1-(3-chloro-5,6,7,8-tetrahydro-5-quinoxaliny)-, trihydrochloride (9CI) (CA INDEX NAME)



● 3 HCl

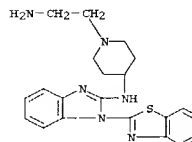
RN 317589-47-2 CAPLUS
CN 1H-Benzimidazol-2-amine, 1-(2-benzothiazolylmethyl)-N-4-piperidinyl-, dihydrochloride (9CI) (CA INDEX NAME)



● 2 HCl

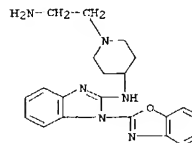
L70 ANSWER 8 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

RN 317589-67-6 CAPLUS
CN 1H-Benzimidazol-2-amine, N-[1-(2-aminoethyl)-4-piperidinyl]-1-(2-benzothiazolyl)-, trihydrochloride (9CI) (CA INDEX NAME)

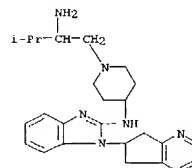


● 3 HCl

RN 317589-71-2 CAPLUS
CN 1H-Benzimidazol-2-amine, N-[1-(2-aminoethyl)-4-piperidinyl]-1-(2-benzoxazolyl)- (9CI) (CA INDEX NAME)



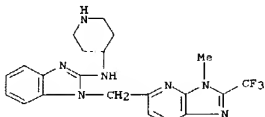
RN 317589-76-7 CAPLUS
CN 1H-Benzimidazol-2-amine, N-[1-(2-amino-3-methylbutyl)-4-piperidinyl]-1-(6,7-dihydro-SH-cyclopenta[b]pyridin-6-yl)- (9CI) (CA INDEX NAME)



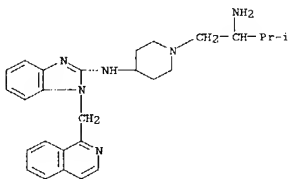
10/019,376

L70 ANSWER 8 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

RN 317588-80-3 CAPLUS
CN 1H-Benzimidazol-2-amine, 1-[[3-methyl-2-(trifluoromethyl)-3H-imidazo[4,5-b]pyridin-5-yl]methyl]-N-4-piperidinyl- (9CI) (CA INDEX NAME)



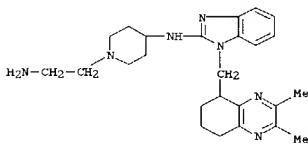
RN 317589-85-8 CAPLUS
CN 1H-Benzimidazol-2-amine, N-[1-(2-amino-3-methylbutyl)-4-piperidinyl]-1-(1-isoquinolinylmethyl)-, trihydrochloride (9CI) (CA INDEX NAME)



● 3 HCl

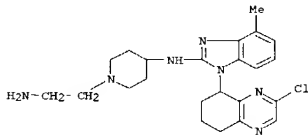
RN 317590-01-5 CAPLUS
CN 1-Piperidinecarboxaldehyde, 4-[[4-methyl-1-(8-quinolinylmethyl)-1H-benzimidazol-2-yl]amino]- (9CI) (CA INDEX NAME)

L70 ANSWER 8 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



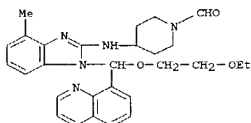
● 3 HCl

RN 317590-15-1 CAPLUS
CN 1H-Benzimidazol-2-amine, N-[1-(2-aminoethyl)-4-piperidinyl]-1-(3-chloro-5,6,7,8-tetrahydro-5-quinoxaliny)-4-methyl-, trihydrochloride (9CI) (CA INDEX NAME)



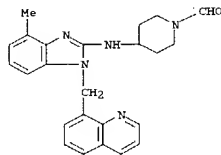
● 3 HCl

RN 317590-34-4 CAPLUS
CN 1-Piperidinecarboxaldehyde, 4-[[1-[(2-ethoxyethoxy)-8-quinolinylmethyl]-4-methyl-1H-benzimidazol-2-yl]amino]- (9CI) (CA INDEX NAME)

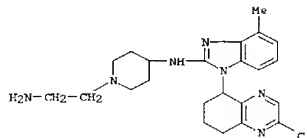


RN 317590-38-8 CAPLUS
CN 1H-Benzimidazol-2-amine, N-[1-(2-amino-3-methylbutyl)-4-piperidinyl]-4-

L70 ANSWER 8 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



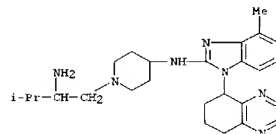
RN 317590-05-9 CAPLUS
CN 1H-Benzimidazol-2-amine, N-[1-(2-aminoethyl)-4-piperidinyl]-1-(2-chloro-5,6,7,8-tetrahydro-5-quinoxaliny)-4-methyl-, trihydrochloride (9CI) (CA INDEX NAME)



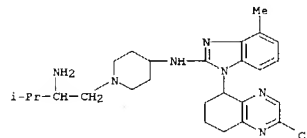
● 3 HCl

RN 317590-10-6 CAPLUS
CN 1H-Benzimidazol-2-amine, N-[1-(2-aminoethyl)-4-piperidinyl]-1-[(5,6,7,8-tetrahydro-2,3-dimethyl-5-quinoxaliny)methyl]-, trihydrochloride (9CI) (CA INDEX NAME)

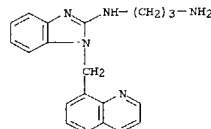
L70 ANSWER 8 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 317590-47-9 CAPLUS
CN 1H-Benzimidazol-2-amine, N-[1-(2-amino-3-methylbutyl)-4-piperidinyl]-1-(2-chloro-5,6,7,8-tetrahydro-5-quinoxaliny)-4-methyl-, trihydrochloride (9CI) (CA INDEX NAME)



RN 317590-56-0 CAPLUS
CN 1,3-Propanediamine, N-[1-(8-quinolinylmethyl)-1H-benzimidazol-2-yl]-, trihydrochloride (9CI) (CA INDEX NAME)

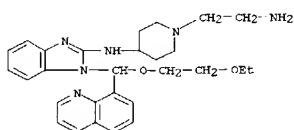


● 3 HCl

RN 317590-64-0 CAPLUS
CN 1H-Benzimidazol-2-amine, N-[1-(2-aminoethyl)-4-piperidinyl]-1-[(2-ethoxyethoxy)-8-quinolinylmethyl]-, trihydrochloride (9CI) (CA INDEX NAME)

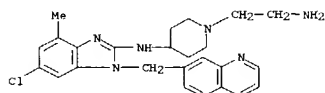
10/019,376

L70 ANSWER 8 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



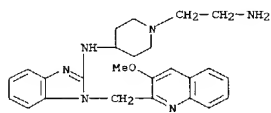
● 3 HCl

RN 317590-75-3 CAPLUS
CN 1H-Benzimidazol-2-amine, N-[1-(2-aminoethyl)-4-piperidinyl]-6-chloro-4-methyl-1-(7-quinolinylmethyl)-, tetrahydrochloride (9CI) (CA INDEX NAME)



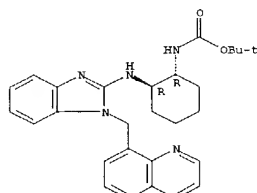
● 4 HCl

RN 317590-79-7 CAPLUS
CN 1H-Benzimidazol-2-amine, N-[1-(2-aminoethyl)-4-piperidinyl]-1-[(3-methoxy-2-quinolinyl)methyl]- (9CI) (CA INDEX NAME)

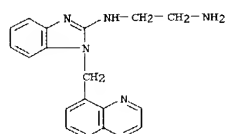


RN 317590-84-4 CAPLUS
CN 1H-Benzimidazol-2-amine, N-[1-(2-amino-3-methylbutyl)-4-piperidinyl]-1-[(4-methyl-2-quinolinyl)methyl]-, tetrahydrochloride (9CI) (CA INDEX NAME)

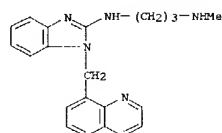
L70 ANSWER 8 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 317590-97-9 CAPLUS
CN 1,2-Ethanedi-amine, N-[1-(8-quinolinylmethyl)-1H-benzimidazol-2-yl]- (9CI) (CA INDEX NAME)

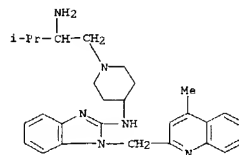


RN 317591-07-4 CAPLUS
CN 1,3-Propanedi-amine, N-methyl-N'-[1-(8-quinolinylmethyl)-1H-benzimidazol-2-yl]- (9CI) (CA INDEX NAME)



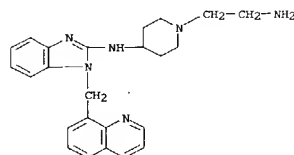
RN 317591-12-1 CAPLUS
CN 1H-Benzimidazol-2-amine, N-[1-(2-aminoethyl)-4-piperidinyl]-1-[1-(8-quinolinyl)ethyl]- (9CI) (CA INDEX NAME)

L70 ANSWER 8 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



● 4 HCl

RN 317590-89-9 CAPLUS
CN 1H-Benzimidazol-2-amine, N-[1-(2-aminoethyl)-4-piperidinyl]-1-(8-quinolinylmethyl)-, tetrahydrochloride (9CI) (CA INDEX NAME)

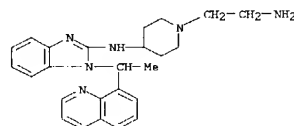


● 4 HCl

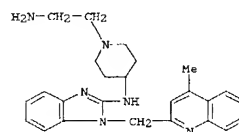
RN 317590-93-5 CAPLUS
CN Carbamic acid, [(1R,2R)-2-[[1-(8-quinolinylmethyl)-1H-benzimidazol-2-yl]amino]cyclohexyl]-, 1,1-dimethylethyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

L70 ANSWER 8 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

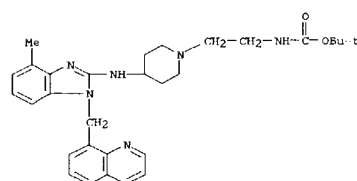


RN 317591-17-6 CAPLUS
CN 1H-Benzimidazol-2-amine, N-[1-(2-aminoethyl)-4-piperidinyl]-1-[4-methyl-2-quinolinyl)methyl]-, tetrahydrochloride (9CI) (CA INDEX NAME)



● 4 HCl

RN 317591-31-4 CAPLUS
CN Carbamic acid, [2-[4-[[4-methyl-1-(8-quinolinylmethyl)-1H-benzimidazol-2-yl]amino]-1-piperidinyl]ethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

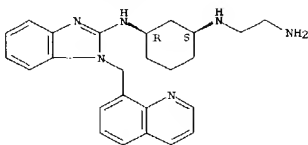


RN 317591-35-8 CAPLUS
CN 1,3-Cyclohexanediamine, N-(2-aminoethyl) N'-[1-(8-quinolinylmethyl)-1H-benzimidazol-2-yl]-, trihydrochloride, (1R,3S)-rel- (9CI) (CA INDEX NAME)

10/019,376

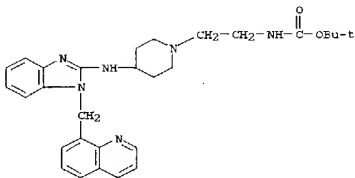
L70 ANSWER 8 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

Relative stereochemistry.



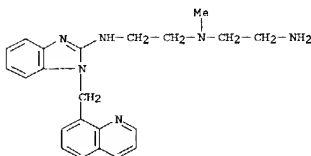
● 3 HCl

RN 317591-40-5 CAPLUS
CN Carbamic acid, [2-[[[1-(8-quinolinylmethyl)-1H-benzimidazol-2-yl]amino]-1-piperidinyl]ethyl]-, 1,1-dimethylethyl ester (SCI) (CA INDEX NAME)



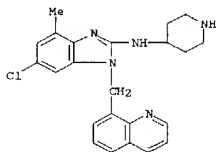
RN 317591-45-0 CAPLUS
CN 1H-Benzimidazol-2-amine, N-4-piperidinyl-1-[1-(8-quinolinyl)ethyl]-, dihydrochloride (SCI) (CA INDEX NAME)

L70 ANSWER 8 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

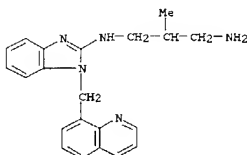


● 4 HCl

RN 317591-58-5 CAPLUS
CN 1H-Benzimidazol-2-amine, 6-chloro-4-methyl-N-4-piperidinyl-1-(8-quinolinylmethyl)- (SCI) (CA INDEX NAME)

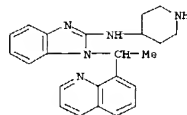


RN 317591-63-2 CAPLUS
CN 1,3-Propanediamine, 2-methyl-N-[1-(8-quinolinylmethyl)-1H-benzimidazol-2-yl]- (SCI) (CA INDEX NAME)



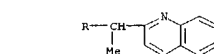
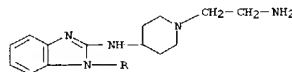
RN 317591-68-7 CAPLUS
CN 1H-Benzimidazol-2-amine, N-[1-(2-aminoethyl)-4-piperidinyl]-4-methyl-1-

L70 ANSWER 8 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



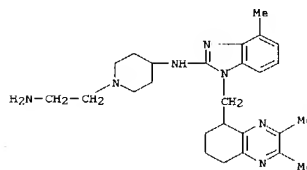
● 2 HCl

RN 317591-49-4 CAPLUS
CN 1H-Benzimidazol-2-amine, N-[1-(2-aminoethyl)-4-piperidinyl]-1-[1-(2-quinolinyl)ethyl]- (SCI) (CA INDEX NAME)

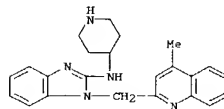


RN 317591-54-1 CAPLUS
CN 1,2-Ethanediamine, N-(2-aminoethyl)-N-methyl-N'-[1-(8-quinolinylmethyl)-1H-benzimidazol-2-yl]-, tetrahydrochloride (SCI) (CA INDEX NAME)

L70 ANSWER 8 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

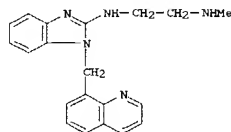


RN 317591-72-3 CAPLUS
CN 1H-Benzimidazol-2-amine, 1-[(4-methyl-2-quinolinyl)methyl]-N-4-piperidinyl-, dihydrochloride (SCI) (CA INDEX NAME)



● 2 HCl

RN 317591-77-8 CAPLUS
CN 1,2-Ethanediamine, N-methyl-N'-[1-(8-quinolinylmethyl)-1H-benzimidazol-2-yl]-, dihydrochloride (SCI) (CA INDEX NAME)

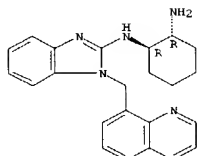


● 2 HCl

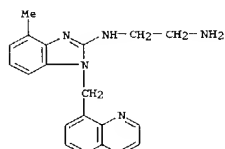
10/019,376

L70 ANSWER 8 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
 RN 317591-86-9 CAPLUS
 CN 1,2-Cyclohexanediamine, N-[1-(8-quinolinylmethyl)-1H-benzimidazol-2-yl]-, (1R,2R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



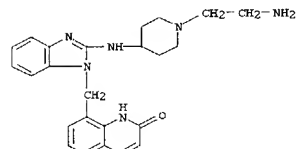
RN 317591-91-6 CAPLUS
 CN 1,2-Ethanediamine, N-[4-methyl-1-(8-quinolinylmethyl)-1H-benzimidazol-2-yl]- (9CI) (CA INDEX NAME)



RN 317592-00-0 CAPLUS
 CN Carbamic acid, [2-[4-[[1-[(5,6,7,8-tetrahydro-2,3-dimethyl-5-quinolalyl)methyl]-1H-benzimidazol-2-yl]amino]-1-piperidinyl]ethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

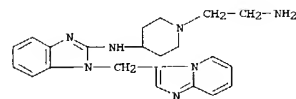


L70 ANSWER 8 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
 RN 317592-15-7 CAPLUS
 CN 2-[1H-Quinolone, 8-[[2-[[1-(2-aminoethyl)-4-piperidinyl]amino]-1H-benzimidazol-1-yl]methyl]-, trihydrochloride (9CI) (CA INDEX NAME)



● 3 HCl

RN 317592-19-1 CAPLUS
 CN 1H-Benzimidazol-2-amine, N-[1-(2-aminoethyl)-4-piperidinyl]-1-(imidazo[1,2-a]pyridin-3-ylmethyl)-, tetrahydrochloride (9CI) (CA INDEX NAME)

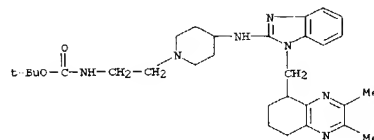


● 4 HCl

RN 317592-25-9 CAPLUS
 CN Acetamide, N-(2-aminoethyl)-N-methyl-2-[[1-(8-quinolinylmethyl)-1H-benzimidazol-2-yl]amino]-, trihydrochloride (9CI) (CA INDEX NAME)

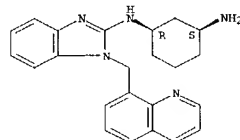


L70 ANSWER 8 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

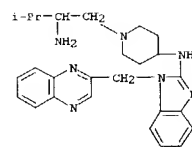


RN 317592-05-5 CAPLUS
 CN 1,3-Cyclohexanediamine, N-[1-(8-quinolinylmethyl)-1H-benzimidazol-2-yl]-, (1R,3S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

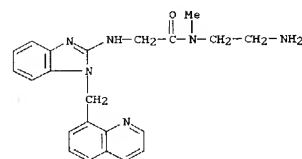


RN 317592-10-2 CAPLUS
 CN 1H-Benzimidazol-2-amine, N-[1-(2-amino-3-methylbutyl)-4-piperidinyl]-1-(2-quinolalylmethyl)-, trihydrochloride (9CI) (CA INDEX NAME)



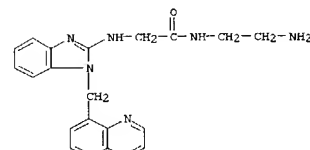
● 3 HCl

L70 ANSWER 8 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

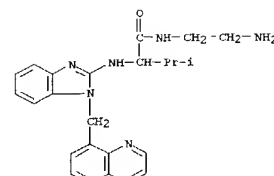


● 3 HCl

RN 317592-29-3 CAPLUS
 CN Acetamide, N-(2-aminoethyl)-2-[[1-(8-quinolinylmethyl)-1H-benzimidazol-2-yl]amino]- (9CI) (CA INDEX NAME)

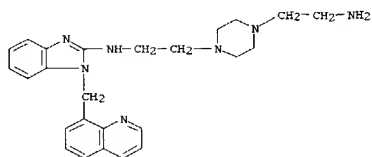


RN 317592-33-9 CAPLUS
 CN Butanamide, N-(2-aminoethyl)-3-methyl-2-[[1-(8-quinolinylmethyl)-1H-benzimidazol-2-yl]amino]- (9CI) (CA INDEX NAME)



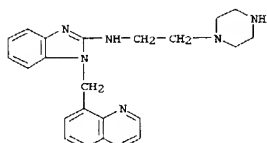
10/019,376

L70 ANSWER 8 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
 RN 317592-36-4 CAPLUS
 CN 1,4-Piperazinediethanamine, N-[[1-(8-quinolinylmethyl)-1H-benzimidazol-2-yl]-, tetrahydrochloride (9CI) (CA INDEX NAME)



●4 HCl

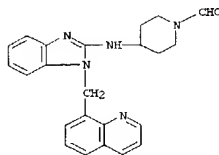
RN 317592-42-0 CAPLUS
 CN 1H-Benzimidazol-2-amine, N-[2-(1-piperazinyl)ethyl]-1-(8-quinolinylmethyl)-, trihydrochloride (9CI) (CA INDEX NAME)



●3 HCl

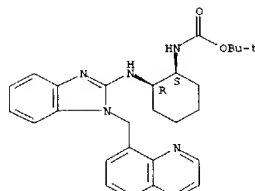
RN 317592-47-5 CAPLUS
 CN 1-Piperidinecarboxaldehyde, 4-[[1-(8-quinolinylmethyl)-1H-benzimidazol-2-yl]amino]- (9CI) (CA INDEX NAME)

L70 ANSWER 8 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



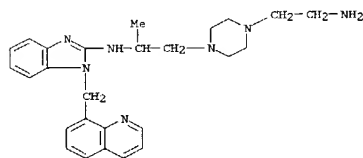
RN 317592-53-3 CAPLUS
 CN Carbanic acid, [(1R,2S)-2-[[1-(8-quinolinylmethyl)-1H-benzimidazol-2-yl]amino]cyclohexyl]-, 1,1-dimethylethyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 317592-58-8 CAPLUS
 CN 1,4-Piperazinediethanamine, α-methyl-N-[[1-(8-quinolinylmethyl)-1H-benzimidazol-2-yl]- (9CI) (CA INDEX NAME)

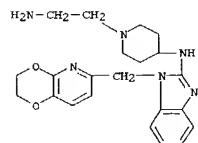
L70 ANSWER 8 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 317592-64-6 CAPLUS
 CN 1H-Benzimidazol-2-amine, N-[[1-(2-aminoethyl)-4-piperidinyl]-1-[(2,3-dihydro-1,4-dioxino[2,3-b]pyridin-6-yl)methyl]-, ethanediolate (2:7) (9CI) (CA INDEX NAME)

CM 1

CRN 317592-63-5
 CMF C22 H28 N6 O2



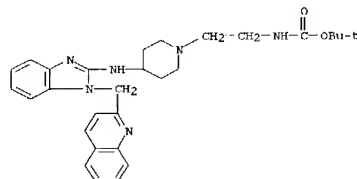
CM 2

CRN 144-62-7
 CMF C2 H2 O4

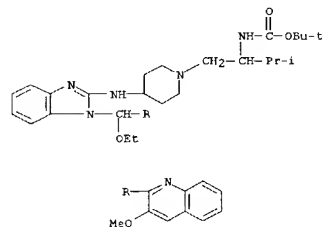


RN 317592-69-1 CAPLUS
 CN Carbanic acid, [2-[[1-(8-quinolinylmethyl)-1H-benzimidazol-2-yl]amino]-1-piperidinyl]methyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

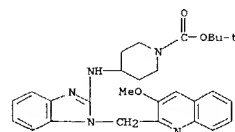
L70 ANSWER 8 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 317592-77-1 CAPLUS
 CN Carbanic acid, [1-[[4-[[1-(ethoxy(3-methoxy-2-quinolinyl)methyl)-1H-benzimidazol-2-yl]amino]-1-piperidinyl]methyl]-2-methylpropyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

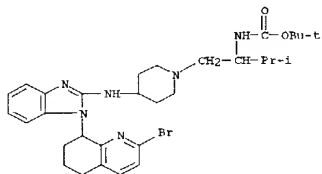


RN 317592-81-7 CAPLUS
 CN 1-Piperidinecarboxylic acid, 4-[[1-(3-methoxy-2-quinolinyl)methyl]-1H-benzimidazol-2-yl]amino]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

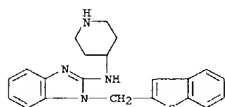


10/019,376

L70 ANSWER 8 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
 RN 317592-86-2 CAPLUS
 CN Carbamic acid, [1-[[4-[(1-(2-bromo-5,6,7,8-tetrahydro-8-quinolinyl)-1H-benzimidazol-2-yl)amino]-1-piperidinyl)methyl]-2-methylpropyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

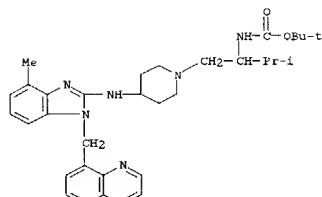


RN 317592-91-9 CAPLUS
 CN 1H-Benzimidazol-2-amine, 1-(benzo[b]thien-2-ylmethyl)-N-4-piperidinyl- (9CI) (CA INDEX NAME)

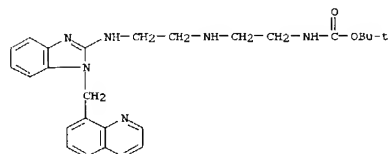


IT 317596-36-4P
 RL: RVP (Byproduct); PREP (Preparation)
 (preparation of benzimidazoles as respiratory syncytial virus replication inhibitors)
 RN 317596-36-4 CAPLUS
 CN 1H-Benzimidazol-2-amine, N-[1-[3-methyl-2-[(phenylmethyl)amino]butyl]-4-piperidinyl]-1-(1,2,3,4-tetrahydro-8-quinolinyl)- (9CI) (CA INDEX NAME)

L70 ANSWER 8 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
 CN Carbamic acid, [2-methyl-1-[[4-[[4-methyl-1-(8-quinolinylmethyl)-1H-benzimidazol-2-yl]amino]-1-piperidinyl)methyl]propyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

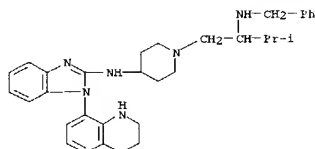


RN 317595-86-1 CAPLUS
 CN Carbamic acid, [2-[[2-[[1-(8-quinolinylmethyl)-1H-benzimidazol-2-yl]amino]ethyl]amino]ethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

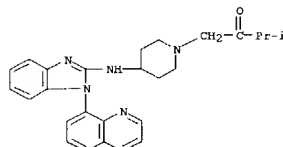


RN 317595-91-8 CAPLUS
 CN 1H-Benzimidazol-2-amine, 1-[ethoxy(3-methoxy-2-quinolinyl)methyl]-N-4-piperidinyl- (9CI) (CA INDEX NAME)

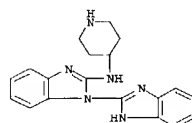
L70 ANSWER 8 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



IT 317595-45-2 317595-49-6 317595-82-7
 317595-86-1 317595-91-8 317595-96-3
 317596-15-9 317596-19-3 317596-27-3
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation of benzimidazoles as respiratory syncytial virus replication inhibitors)
 RN 317595-45-2 CAPLUS
 CN 2-Butanone, 3-methyl-1-[4-[[1-(8-quinolinyl)-1H-benzimidazol-2-yl]amino]-1-piperidinyl]- (9CI) (CA INDEX NAME)

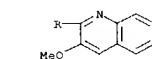
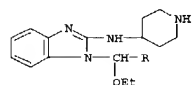


RN 317595-49-6 CAPLUS
 CN [1,2'-Bi-1H-benzimidazol]-2-amine, N-4 piperidinyl- (9CI) (CA INDEX NAME)

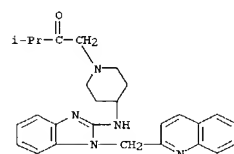


RN 317595-82-7 CAPLUS

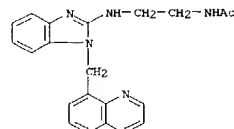
L70 ANSWER 8 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 317595-96-3 CAPLUS
 CN 2-Butanone, 3-methyl-1-[4-[[1-(2-quinolinylmethyl)-1H-benzimidazol-2-yl]amino]-1-piperidinyl]- (9CI) (CA INDEX NAME)



RN 317596-15-9 CAPLUS
 CN Acetamide, N-[2-[[1-(8-quinolinylmethyl)-1H-benzimidazol-2-yl]amino]ethyl]- (9CI) (CA INDEX NAME)

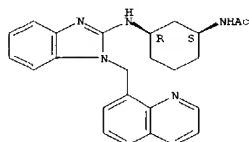


RN 317596-19-3 CAPLUS
 CN Acetamide, N-[(1R,3S)-3-[[1-(8-quinolinylmethyl)-1H-benzimidazol-2-yl]amino]cyclohexyl]-, rel- (9CI) (CA INDEX NAME)

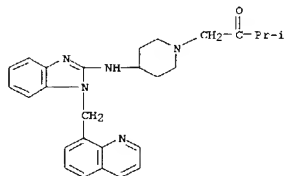
Relative stereochemistry.

10/019,376

L70 ANSWER 8 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

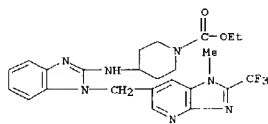


RN 317596-27-3 CAPLUS
CN 2-Butanone, 3-methyl-1-[4-[[1-(8-quinolinylmethyl)-1H-benzimidazol-2-yl]amino]-1-piperidinyl]- (9CI) (CA INDEX NAME)

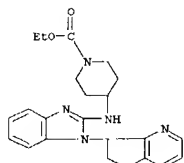


IT 317593-01-4P 317593-14-9P 317593-37-6P
317593-77-4P 317594-82-1P 317594-23-3P
317594-31-3P 317594-35-7P 317594-40-4P
317594-49-3P 317594-59-5P 317594-64-2P
317594-69-7P 317594-77-7P 317594-86-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation of benzimidazoles as respiratory syncytial virus replication
inhibitors)
RN 317593-01-4 CAPLUS
CN 1-Piperidinecarboxylic acid, 4-[[1-(2-quinolinylmethyl)-1H-benzimidazol-2-yl]amino]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

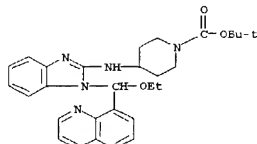
L70 ANSWER 8 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 317593-82-1 CAPLUS
CN 1-Piperidinecarboxylic acid, 4-[[1-(6,7-dihydro-5H-cyclopenta[b]pyridin-7-yl)-1H-benzimidazol-2-yl]amino]-, ethyl ester (9CI) (CA INDEX NAME)

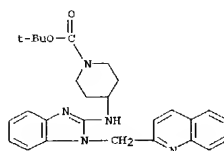


RN 317594-23-3 CAPLUS
CN 1-Piperidinecarboxylic acid, 4-[[1-(ethoxy-8-quinolinylmethyl)-1H-benzimidazol-2-yl]amino]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

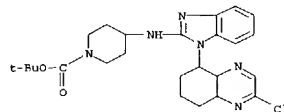


RN 317594-31-3 CAPLUS
CN 2-Butanone, 1-[4-[[1-(ethoxy-8-quinolinylmethyl)-1H-benzimidazol-2-yl]amino]-1-piperidinyl]-3-methyl- (9CI) (CA INDEX NAME)

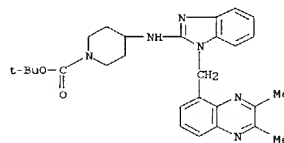
L70 ANSWER 8 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 317593-14-9 CAPLUS
CN 1-Piperidinecarboxylic acid, 4-[[1-(2-chloro-4a,5,6,7,8,8a-hexahydro-5-quinoxaliny)-1H-benzimidazol-2-yl]amino]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

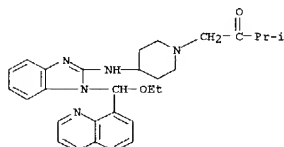


RN 317593-37-6 CAPLUS
CN 1-Piperidinecarboxylic acid, 4-[[1-[(2,3-dimethyl-5-quinoxaliny)methyl]-1H-benzimidazol-2-yl]amino]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

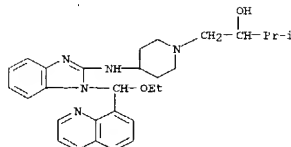


RN 317593-77-4 CAPLUS
CN 1-Piperidinecarboxylic acid, 4-[[1-[[1-methyl-2-(trifluoromethyl)-1H-imidazo[4,5-b]pyridin-6-yl]methyl]-1H-benzimidazol-2-yl]amino]-, ethyl ester (9CI) (CA INDEX NAME)

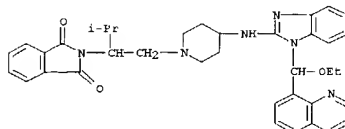
L70 ANSWER 8 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 317594-35-7 CAPLUS
CN 1-Piperidineethanol, 4-[[1-(ethoxy-8-quinolinylmethyl)-1H-benzimidazol-2-yl]amino]-α-(1-methylethyl)- (9CI) (CA INDEX NAME)



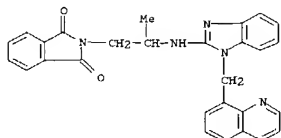
RN 317594-40-4 CAPLUS
CN 1H-Isindole-1,3(2H)-dione, 2-[[1-[[1-(ethoxy-8-quinolinylmethyl)-1H-benzimidazol-2-yl]amino]-1-piperidinyl]methyl]-2-methylpropyl]- (9CI) (CA INDEX NAME)



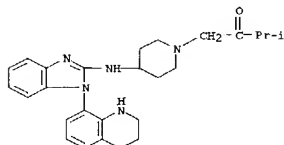
RN 317594-49-3 CAPLUS
CN 1H-Isindole-1,3(2H)-dione, 2-[2-[[1-(8-quinolinylmethyl)-1H-benzimidazol-2-yl]amino]propyl]- (9CI) (CA INDEX NAME)

10/019,376

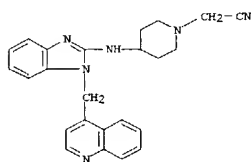
L70 ANSWER 8 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 317594-59-5 CAPLUS
CN 2-Butanone, 3-methyl-1-[4-[[1-(1,2,3,4-tetrahydro-8-quinolinyl)-1H-benzimidazol-2-yl]amino]-1-piperidinyl]- (9CI) (CA INDEX NAME)



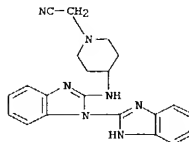
RN 317594-64-2 CAPLUS
CN 1-Piperidineacetone, 4-[[1-(4-quinolinylmethyl)-1H-benzimidazol-2-yl]amino]- (9CI) (CA INDEX NAME)



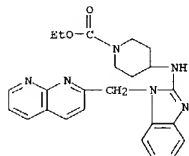
RN 317594-69-7 CAPLUS
CN 1-Piperidineacetonitrile, 4-[[1-(2'-bi-1H-benzimidazol-2-ylamino)- (9CI) (CA INDEX NAME)

L70 ANSWER 8 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

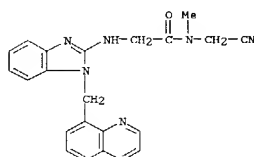
L70 ANSWER 8 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 317594-77-7 CAPLUS
CN 1-Piperidineacetic acid, 4-[[1-(1,8-naphthyridin-2-ylmethyl)-1H-benzimidazol-2-yl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



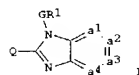
RN 317594-86-8 CAPLUS
CN Acetamide, N-(cyanomethyl)-N-methyl-2-[[1-(8-quinolinylmethyl)-1H-benzimidazol-2-yl]amino]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L70 ANSWER 9 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2001:12444 CAPLUS
DOCUMENT NUMBER: 134:86248
TITLE: Preparation of benzimidazoles as respiratory syncytial virus replication inhibitors.
INVENTOR(S): Janssens, Frans Eduard; Meersman, Kathleen Petrus Marie-Jose; Sommen, Francois Maria; Guillemont, Jerome Emile Georges; Lacrampe, Jean Fernand Armand; Andries, Koenraad Jozef Lodewijk Marcel
PATENT ASSIGNEE(S): Janssen Pharmaceutica N.V., Belg.
SOURCE: PCT Int. Appl., 119 pp.
CODEN: PIXAD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001000611	A1	20010104	WO 2000-EP5676	20000620
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GR, GU, HK, HU, IL, IN, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SF, SJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
BR 2000012054	A	20020319	BR 2000-12054	20000620
EP 1196408	A1	20020417	EP 2000-943841	20000620
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2003503401	T2	20030128	JP 2001-507020	20000620
EE 200100692	A	20030217	EE 2001-692	20000620
NZ 515418	A	20031128	NZ 2000-515418	20000620
HR 2001000933	A1	20030630	HR 2001-933	20011219
ZA 2001010478	A	20030320	ZA 2001-10478	20011220
NO 2001006368	A	20020228	NO 2001-6368	20011227
BG 106287	A	20021031	BG 2002-106287	20020108
PRIORITY APPLN. INFO.: EP 1999-202087 A 19990628				
EP 2000-200452 A 20000211				
WO 2000-EP5676 W 20000620				
OTHER SOURCE(S): MARKPAT 134:86248				
GI				



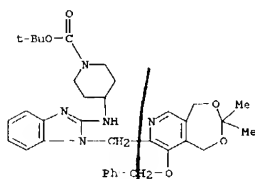
AB Use of title compds. [I: a1:a2a3:a4 = (substituted) CH:CHCH:CH, N:CHCH:CH, CH:NCH:CH, CH:CHN:CH, CH:CHCH:N; O = R2R4NAX1, R2R4NCOM1, specified (heterocyclic) ring, etc.; A = alkylene; R2 = H, CHO, alkylcarbonyl, pyrrolidinyl, piperidinyl, homopiperidinyl, aminocycloalkyl, etc.; R4 = H,

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L70 ANSWER 9 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
alkyl, aralkyl, G = bond, alkanediyl, R1 = (substituted) piperidinyl, piperazinyl, pyridyl, pyrazinyl, pyridazinyl, pyrrolyl, furyl, thienyl, oxazolyl, thiazolyl, imidazolyl, pyrazolyl, etc.] for treatment of viral infection is claimed. Thus, 1,1-dimethylethyl 4-[[1-[[3,5-dihydro-3,3-dimethyl-9-(phenylmethoxy)-1H-1,3-dioxepino[5,6-c]pyridin-2-yl]methyl]-1H-benzimidazol-2-yl]amino]-1-piperidinecarboxylate was refluxed 6 h in 10N HCl to give 4-[[1-[[3,5-dihydro-3,3-dimethyl-9-(phenylmethoxy)-1H-1,3-dioxepino[5,6-c]pyridin-2-yl]methyl]-1H-benzimidazol-2-yl]amino]piperidine. Tested I inhibited respiratory syncytial virus replication with IC50 = 0.00013-2.5119 μ M.

IT 317847-70-4 317847-81-7
RI: RCT (Reactant); RACT (Reactant or reagent)
(preparation of benzimidazoles as respiratory syncytial virus replication inhibitors)

RN 317847-70-4 CAPLUS
CN 1-Piperidinecarboxylic acid, 4-[[1-[[1,5-dihydro-3,3-dimethyl-9-(phenylmethoxy)[1,3]dioxepino[5,6-c]pyridin-8-yl]methyl]-1H-benzimidazol-2-yl]amino]-1-piperidinyl]ethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



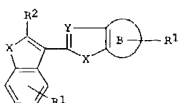
RN 317847-81-7 CAPLUS
CN Carbanic acid, [2-[4-[[1-[[1,5-dihydro-3,3-dimethyl-9-(phenylmethoxy)[1,3]dioxepino[5,6-c]pyridin-8-yl]methyl]-1H-benzimidazol-2-yl]amino]-1-piperidinyl]ethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

L70 ANSWER 10 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
INVENTION NUMBER: 2000:911254 CAPLUS
DOCUMENT NUMBER: 134:71595
TITLE: Preparation of indolylbenzimidazole derivatives as antibacterials
INVENTOR(S): Bannister, Thomas D.; Cuny, Gregory D.; Hausen, James R.; Wommann, Michael Z.; Rossi, Richard F.; Xie, Roger LeJie
PATENT ASSIGNEE(S): Serracor, Inc., USA
SOURCE: PCT Int. Appl., 82 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000078761	A1	20001228	WO 2000-US17371	20000623

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 1999-140570P P 19990623
OTHER SOURCE(S): MARPAT 134:71595
GI



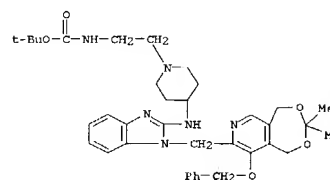
AB The title heteroarom. compds. I [X = NR, O, S; Y = N, NO; B = fused ring; R1 = Me, alkyl, aryl, etc.; R2 = H, heteroalkyl, cycloalkyl, etc.], antibacterials or antifungals or both, were prepared E.g., the product resulting from reaction of 5-bromo-3-indolecarboxaldehyde and 4-chloro-o-phenylenediamine was prepared and tested for antibacterial activity.

IT 314248-65-2P 314248-66-3P 314248-67-4P
RI: RAC (Biological activity or effector, except adverse); RSU (Biological study, unclassified); RCT (Reactant); SFN (Synthetic preparation); THJ (Therapeutic use); RIGL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation of indolylbenzimidazole deriva. as antibacterials)

RN 314248-65-2 CAPLUS
CN 1H-Indole-1,3(2H)-dione, 2-[3-[5,6-dichloro-2-(5-chloro-1H-indol-3-yl)-1H-benzimidazol-1-yl]-2-hydroxypropyl]- (9CI) (CA INDEX NAME)

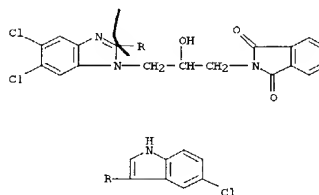
Page 30

L70 ANSWER 9 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

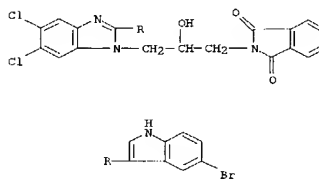


REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L70 ANSWER 10 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



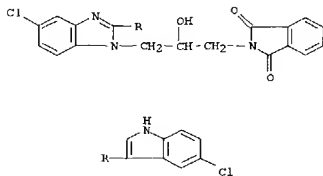
RN 314248-66-3 CAPLUS
CN 1H-Indole-1,3(2H)-dione, 2-[3-[2-(5-bromo-1H-indol-3-yl)-5,6-dichloro-1H-benzimidazol-1-yl]-2-hydroxypropyl]- (9CI) (CA INDEX NAME)



RN 314248-67-4 CAPLUS
CN 1H-Indole-1,3(2H)-dione, 2-[3-[5-chloro-2-(5-chloro-1H-indol-3-yl)-1H-benzimidazol-1-yl]-2-hydroxypropyl]- (9CI) (CA INDEX NAME)

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L70 ANSWER 10 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L70 ANSWER 11 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2000:658114 CAPLUS

DOCUMENT NUMBER: 133:238002

TITLE: Preparation of 1,2-substituted benzimidazole derivatives as antiallergic agents

INVENTOR(S): Sato, Toshio; Taguchi, Takeo; Nakano, Hirooyuki; Inoue, Tsutomu; Kawasaki, Nobuhide

PATENT ASSIGNEE(S): Fujii Yakuhin K. K., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 18 pp.

CODEN: JKOXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000256354	A2	20000919	JP 1999-55531	19990303
PRIORITY APPL. INFO.:		JP 1999-55531		19990303
OTHER SOURCE(S):		MARPAT 133:238002		

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* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

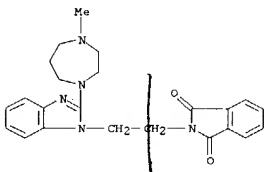
AB The title compds. (I) R1 = Me, Q: R2 = alkyl, Q1: A1, A2 = linear or branched C2-9 alkylene optionally interrupted by O, S, NH, or NHC(O); R3 = H, R4CO, R4SO2; wherein R4 = (un)substituted alkyl, aryl, or heterocyclyl; provided that when R1 = Me, R2 = alkyl) or pharmacol. acceptable salts thereof are prepared. These compds. exhibit antihistaminic, antioxidant, 5-lipoxygenase-inhibitory, and cyclooxygenase-inhibitory activity, and inhibition of chemical messenger release and are useful for the prevention and treatment of allergic diseases such as bronchial asthma, allergic rhinitis, and atopic dermatitis. Thus, 2-chloro-1-[4-(4-hydroxy-2,3,5-trimethylphenoxy)butyl]benzimidazole and N-methylhomopiperazine were stirred at room temperature at 130° for 4 h to give 1-[4-(4-hydroxy-2,3,5-trimethylphenoxy)butyl]-2-(4-methyl-1-homopiperazino)benzimidazole (II). II and 1-[4-(4-hydroxy-2,3,5-trimethylphenoxy)butyl]-2-[4-(4-hydroxy-2,3,5-trimethylphenoxy)butyl]-1-homopiperazino]benzimidazole at 10-6 M inhibited 5-lipoxygenase of RBL-1 cell by 65.9 and 87.6%, resp.

IT 293298-28-99
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); PACT (Reactant or reagent)
(preparation of substituted benzimidazole derivs. as antiallergic agents, antioxidants, 5-lipoxygenase and cyclooxygenase inhibitors, and inhibitors of chemical messenger release)

RN 293298-28-9 CAPLUS

CN 1H-Isouindole-1,3(2H)-dione, 2-[2-[2-(hexahydro-4-methyl-1H-1,4-diazepin-1-yl)-1H-benzimidazol-1-yl]ethyl]- (9CI) (CA INDEX NAME)

L70 ANSWER 11 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



L70 ANSWER 12 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2000:182370 CAPLUS

DOCUMENT NUMBER: 132:342805

TITLE: Synthesis and evaluation of a series of 2'-deoxy analogues of the antiviral agent 5,6-dichloro-2-isopropylamino-1-(β-L-ribofuranosyl)-1H-benzimidazole (1263W94)

AUTHOR(S): Chan, Joseph H.; Chamberlain, Stanley D.; Biron, Karen K.; Davis, Michelle G.; Harvey, Robert J.; Sells, Seth, Dean W.; Dornsife, Ronna E.; Dark, Ernest H.; Frick, Lloyd W.; Townsend, Leroy B.; Drach, John C.; Koszalaka, George W.

CORPORATE SOURCE: Division of Chemistry, Glaxo Wellcome Inc., Research Triangle Park, NC, 27709, USA

SOURCE: Nucleosides, Nucleotides & Nucleic Acids (2000), 19(1 & 2), 101-123

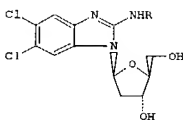
CODEN: NNNAFY; ISSN: 1525-7770

PUBLISHER: Marcel Dekker, Inc.

DOCUMENT TYPE: Journal

LANGUAGE: English

GI



AB A series of 2'-deoxy analogs of the antiviral agent 5,6-dichloro-2-isopropylamino-1-(β-L-ribofuranosyl)-1H-benzimidazole (1263W94) were synthesized and evaluated for activity against human cytomegalovirus (HCMV) and for cytotoxicity. The 2-substituents in the benzimidazole moiety correspond to those that were used in the 1263W94 series. In general, as was found in the 1263W94 series, cyclic and branched alkylamino groups were needed for potent activity against HCMV. Three analogs were as potent as 1263W94. Further evaluation of two analogs suggested that these 2'-deoxy analogs may act via a novel mechanism of action similar to that of 1263W94. These 2'-deoxy analogs generally lacked cytotoxicity in vitro. Pharmacokinetic parameters in mice and protein binding properties of one of the analogs (I) were quite similar to 1263W94. However, the oral bioavailability of I was only half of that observed for 1263W94.

IT 268566-64-9P 268566-64-OP 268566-66-1P

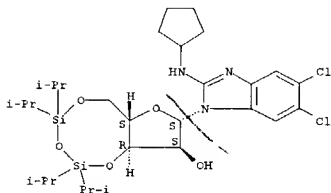
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); PACT (Reactant or reagent)

(preparation and structure-activity relations of a series of 2'-deoxy-L-ribofuranose analogs as antiviral agents against human cytomegalovirus)

RN 268566-64-9 CAPLUS

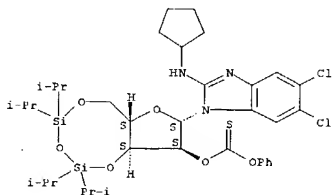
CN 1H-Benzimidazol-2-amine, 5,6-dichloro-N-cyclopentyl-1-[3,5-O-[1,1,3,3-tetrakis(1-methylethyl)-1,3-disiloxanediyl]-β-L-ribofuranosyl]- (9CI) (CA INDEX NAME)

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L70 ANSWER 12 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
Absolute stereochemistry.

RN 258566-65-0 CAPLUS
CN 1H-Benzimidazol-2-amine, 5,6-dichloro-N-cyclopentyl-1-[2-O-(phenoxymethyl)-3,5-O-([1,1,3,3-tetrakis(1-methylethyl)-1,3-disiloxanediyl]-β-L-ribofuranosyl)]-1,3-disiloxanediyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

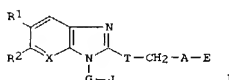


RN 268566-66-1 CAPLUS
CN 1H-Benzimidazol-2-amine, 5,6-dichloro-N-cyclopentyl-1-[2-deoxy-3,5-O-([1,1,3,3-tetrakis(1-methylethyl)-1,3-disiloxanediyl]-β-L-erythro-pentofuranosyl)]-1,3-disiloxanediyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

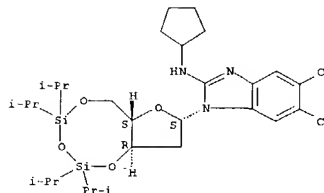
L70 ANSWER 13 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2000:68436 CAPLUS
DOCUMENT NUMBER: 132:107952
TITLE: Preparation of thiobenzimidazole derivatives as chymase inhibitors
INVENTOR(S): Matsumoto, Yoshiyuki; Takeuchi, Susumu; Hase, Naoki
PATENT ASSIGNEE(S): Teijin Limited, Japan
SOURCE: PCT Int. Appl., 103 pp.
CODEN: FIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000003997	A1	20000127	WO 1999-JP3799	19990714
W: AE, AL, AM, AT, AU, AZ, BA, BE, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, EF, EJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2336909	AA	20000127	CA 1999-2336909	19990714
AU 9946519	A1	20000207	AU 1999-46519	19990714
AU 758789	B2	20030327		
EP 1097926	A1	20010509	EP 1999-929832	19990714
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
BR 9912098	A	20010925	BR 1999-12098	19990714
EE 200100022	A	20020617	EE 2001-22	19990714
NZ 509207	A	20030131	NZ 1999-509207	19990714
NO 2001000193	A	20010112	NO 2001-193	20010112
HR 2001000030	A1	20011231	HR 2001-30	20010112
BG 105149	A	20010831	BG 2001-105149	20010115
PRIORITY APPLN. INFO.: JP 1998-200250 A 19980715 WO 1999-JP3799 W 19990714				
OTHER SOURCE(S): MARPAT 132:107952				



AB The title compds. I [T = S(O)m; R1, R2 = H, halo, etc.; A = single bond, etc.; E = CO2R3, etc.; R3 = H, alkyl; G = alkylene; further details on G are given; m = 0 - 2; J is, for example, aryl, etc.; extensive details on J are given] are prepared. Comps. of this invention in vitro showed IC50 values of 10 nM to 100 nM against chymase. A formulation is given.
IT 255396-45-3P 255396-46-4P 255396-90-8P 255396-91-9P 255397-02-5P 255397-03-6P

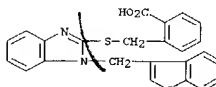
L70 ANSWER 12 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



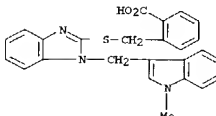
REFERENCE COUNT: 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L70 ANSWER 13 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

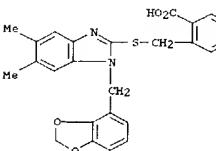
255397-04-7P 255397-05-8P 255397-06-9P
255397-07-0P 255397-08-1P 255397-31-0P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of thiobenzimidazole deriva. as chymase inhibitors)
RN 255396-45-3 CAPLUS
CN Benzoic acid, 2-[[[1-(benzo[b]thien-3-ylmethyl)-1H-benzimidazol-2-yl]thio]methyl]- (9CI) (CA INDEX NAME)



RN 255396-46-4 CAPLUS
CN Benzoic acid, 2-[[[1-(1-methyl-1H-indol-3-yl)methyl]-1H-benzimidazol-2-yl]thio]methyl]- (9CI) (CA INDEX NAME)



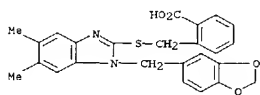
RN 255396-90-8 CAPLUS
CN Benzoic acid, 2-[[[1-(1,3-benzodioxol-4-ylmethyl)-5,6-dimethyl-1H-benzimidazol-2-yl]thio]methyl]- (9CI) (CA INDEX NAME)



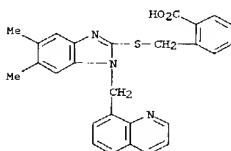
RN 255396-91-9 CAPLUS
CN Benzoic acid, 2-[[[1-(1,3-benzodioxol-4-ylmethyl)-5,6-dimethyl-1H-benzimidazol-2-yl]thio]methyl]- (9CI) (CA INDEX NAME)

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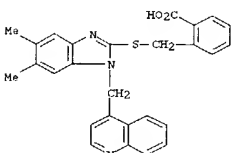
L70 ANSWER 13 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 255397-02-5 CAPLUS
CN Benzoic acid, 2-[[[5,6-dimethyl-1-(8-quinolinylmethyl)-1H-benzimidazol-2-yl]thio]methyl]- (9CI) (CA INDEX NAME)

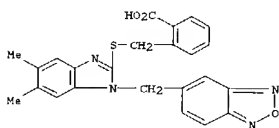


RN 255397-03-6 CAPLUS
CN Benzoic acid, 2-[[[5,6-dimethyl-1-(4-quinolinylmethyl)-1H-benzimidazol-2-yl]thio]methyl]- (9CI) (CA INDEX NAME)

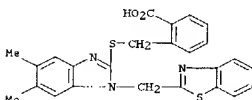


RN 255397-04-7 CAPLUS
CN Benzoic acid, 2-[[[1-(6-chloro-8-isoquinolinylmethyl)-5,6-dimethyl-1H-benzimidazol-2-yl]thio]methyl]- (9CI) (CA INDEX NAME)

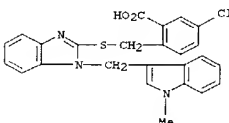
L70 ANSWER 13 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 255397-08-1 CAPLUS
CN Benzoic acid, 2-[[[1-(2-benzothiazolylmethyl)-5,6-dimethyl-1H-benzimidazol-2-yl]thio]methyl]- (9CI) (CA INDEX NAME)

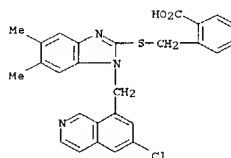


RN 255397-31-0 CAPLUS
CN Benzoic acid, 5-chloro-2-[[[1-(1-methyl-1H-indol-3-yl)methyl]-1H-benzimidazol-2-yl]thio]methyl]- (9CI) (CA INDEX NAME)

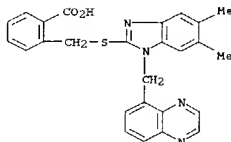


IT 255398-31-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of thio benzimidazole derivs. as chymase inhibitors)
RN 255398-31-3 CAPLUS
CN Benzoic acid, 2-[[[1-(1-methyl-1H-indol-3-yl)methyl]-1H-benzimidazol-2-yl]thio]methyl]-, methyl ester (9CI) (CA INDEX NAME)

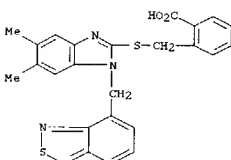
L70 ANSWER 13 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 255397-05-8 CAPLUS
CN Benzoic acid, 2-[[[5,6-dimethyl-1-(5-quinoxalinylmethyl)-1H-benzimidazol-2-yl]thio]methyl]- (9CI) (CA INDEX NAME)

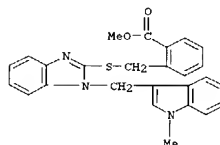


RN 255397-06-9 CAPLUS
CN Benzoic acid, 2-[[[1-(2,1,3-benzothiadiazol-4-ylmethyl)-5,6-dimethyl-1H-benzimidazol-2-yl]thio]methyl]- (9CI) (CA INDEX NAME)



RN 255397-07-0 CAPLUS
CN Benzoic acid, 2-[[[1-(2,1,3-benzoxadiazol-5-ylmethyl)-5,6-dimethyl-1H-benzimidazol-2-yl]thio]methyl]- (9CI) (CA INDEX NAME)

L70 ANSWER 13 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

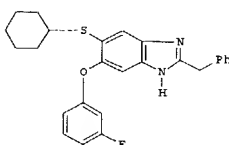
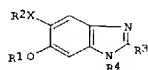


REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

10/019,376

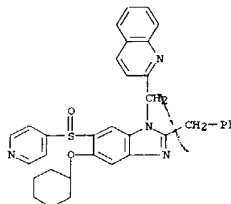
L70 ANSWER 14 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 2000159980 CAPLUS
 DOCUMENT NUMBER: 132:122619
 TITLE: Preparation of 2,5,6-substituted benzimidazole derivatives
 INVENTOR(S): Saito, Shuji; Matsumoto, Taro; Nakamura, Toshio
 PATENT ASSIGNEE(S): Taisho Pharmaceutical Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 42 pp.
 CODEN: JKKXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000026430	A2	20000125	JP 1998-202744	19980702
PRIORITY APPLN. INFO.:			JP 1998-202744	19980702
OTHER SOURCE(S):		MARPAT 132:122619		

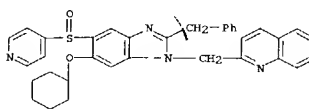


AB Title compds. [I; R1 = H, alkyl; R2 = alkyl, chloalkyl, aryl, pyridyl; R3 = H, alkyl, cycloalkyl; R4 = N, alkyl, alkoxy, (CH2)nA, (CH2)nIA; n = 1-5; A = alkyl, alkoxy; Y = O, S] and pharmaceutical acceptable salts are prepared and tested as antiinflammatory agents having IL- 1, IL- 5, IL-6 inhibition effects and are useful as anti allergy agents in the treatment of chronic rheumatism in autoimmune diseases, osteoporosis in bone diseases. Thus, the title compound II was prepared
 IT 255918-17-3P 255918-18-4P
 RI: BAC (Biological activity or effector, except adverse); RSU (Biological

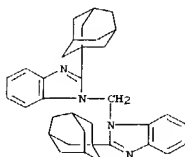
L70 ANSWER 14 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
 study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. of substituted benzimidazole deriva.)
 RN 255918-17-3 CAPLUS
 CN Quinoline, 2-[[5-(cyclohexyloxy)-2-(phenylmethyl)-6-(4-pyridinylsulfinyl)-1H-benzimidazol-1-yl]methyl]- (9CI) (CA INDEX NAME)



RN 255918-18-4 CAPLUS
 CN Quinoline, 2-[[6-(cyclohexyloxy)-2-(phenylmethyl)-5-(4-pyridinylsulfinyl)-1H-benzimidazol-1-yl]methyl]- (9CI) (CA INDEX NAME)



L70 ANSWER 15 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 200012294 CAPLUS
 DOCUMENT NUMBER: 132:165913
 TITLE: 1D- and 2D-networks based on bis- and tris(2-R-benzimidazol-1-yl)methanes
 AUTHOR(S): Lopez, C.; Claramunt, R. M.; Bourne, S. A.; Elguero, J.
 CORPORATE SOURCE: Departamento de Quimica Organica y Biologia, Facultad de Ciencias, Universidad Nacional de Educacion a Distancia, Madrid, E-28040, Spain
 SOURCE: Crystal Engineering (1999), 2(2/3), 197-213
 CODEN: CRYEFG; ISSN: 1463-0184
 PUBLISHER: Elsevier Science Ltd.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB The supramol. entities formed by 5 polybenzimidazolylmethanes, bis(2-tert-butylbenzimidazol-1-yl)methane 2, bis(2-(adamant-1-yl)benzimidazol-1-yl)methane 3, tris(2-ethylbenzimidazol-1-yl)methane 4, tris(2-isopropyl-benzimidazol-1-yl) methane 5, and tris(2-chlorobenzimidazol-1-yl)methane 6 were studied. Compds. 2 and 5 crystallize without any included guest, while compds. 3 (MeOH and H2O), 4 (water), and 6 (cyclohexane) show their host properties.
 IT 255901-80-3
 RI: EMU (Formation, unclassified); PRP (Properties); FORM (Formation, nonpreparative)
 (crystallog.; 1D- and 2D-networks based on bis- and tris(2-R-benzimidazol-1-yl)methanes)
 RN 255901-80-3 CAPLUS
 CN Methanol, compd. with 1,1'-methylenebis[2-tricyclo[3.3.1.1.3,7]dec-1-yl 1H-benzimidazole] (1:1), monohydrate (9CI) (CA INDEX NAME)
 CM 1
 CRN 145950-68-1
 CMF C35 H40 N4



CM 2
 CRN 67-56-1
 CMF C H4 O

H3C-OH

L70 ANSWER 15 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
 REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

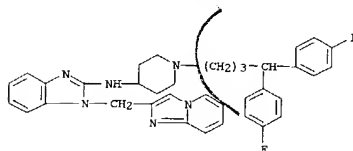
10/019,376

L70 ANSWER 16 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 1999:576763 CAPLUS
 DOCUMENT NUMBER: 131:219171
 TITLE: Glycine transport inhibitors
 INVENTOR(S): Luyten, Walter Herman Maria Louis; Janssens, Frans
 PATENT ASSIGNEE(S): Eduard, Kennis, Ludo Edmond Josephine
 SOURCE: Janssen Pharmaceutica N.V., Belg.
 PCT Int. Appl., 20 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9944596	A2	19990910	WO 1999-EP1309	19990226
WO 9944596	A3	20000217		
W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NC, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KS, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
CA 2322164	AA	19990910	CA 1999-2322164	19990226
AU 9934089	A1	19990920	AU 1999-34089	19990226
EP 1059922	A2	20001220	EP 1999-915541	19990226
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, SI, LT, LV, FI, RO			
BR 9907951	A	20010130	BR 1999-7951	19990226
EE 200004482	A	20020215	EE 2000-482	19990226
JP 200205277	T2	20020219	JP 2000-534198	19990226
HR 200000523	A1	20010228	HR 2000-523	20000802
BG 104685	A	20010430	BG 2000-104685	20000811
NO 200004431	A	20001030	NO 2000-4431	20000905
PRIORITY APPL. INFO.:			EP 1998-200701 A	19980306
			WO 1999-EP1309 W	19990226

OTHER SOURCE(S): MARPAT 131:219171
 AB The present invention is concerned with the use of glycine transport inhibiting [4,4-bis(4-fluorophenyl)butyl]-1-(piperazinyl) and piperidinyl] deriva. for the preparation of medicaments for treating disorders of the central and peripheral nervous system, in particular psychoses, pain, epilepsy, neurodegenerative diseases (Alzheimer's disease), stroke, head trauma, multiple sclerosis and the like. E.g., 3-[1-[4,4-bis(4-fluorophenyl)butyl]-4-piperidinyl]-3,4-dihydro-2(1H)-quinazolinone was prepared as were a number of other derivs. The compds. were assayed for transport via GlyT1 transporters. Film-coated tablets were also prepared
 IT 242791-80-6P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (glycine transport inhibitors)
 RN 242791-80-6 CAPLUS
 CN 1H-Benzimidazol-2-amine, N-[1-[4,4-bis(4-fluorophenyl)butyl]-4-

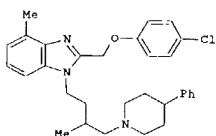
L70 ANSWER 16 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
 piperidinyl]-1-(imidazo[1,2-a]pyridin-2-ylmethyl)- (SCI) (CA INDEX NAME)



L70 ANSWER 17 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 1997:556107 CAPLUS
 DOCUMENT NUMBER: 127:161824
 TITLE: Benzimidazolyl neuropeptide Y receptor antagonists
 INVENTOR(S): Arnold, Macklin B.; Britton, Thomas C.; Bruns, Robert F., Jr.; Cantrell, Buddy E.; Hopp, Anne M.; Hipskind, Philip A.; Howbert, James J.; Lobb, Karen L.; Nixon, James A.; Ornstein, Paul L.; Smith, Edward C.; Zarinnayeh, Hamideh; Zimmerman, Dennis M.
 PATENT ASSIGNEE(S): Eli Lilly and Co., USA
 SOURCE: PCT Int. Appl., 369 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9725041	A1	19970717	WO 1997-US511	19970109
W:	AL, AM, AT, AU, AZ, BA, BR, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NC, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
CA 2242579	AA	19970717	CA 1997-2242579	19970109
AU 9722421	A1	19970801	AU 1997-22421	19970109
EP 871442	A1	19981021	EP 1997-905573	19970109
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI			
JP 2000501107	T2	20000202	JP 1997-525457	19970109
US 6255494	B1	20010703	US 1997-775538	19970109
ZA 9704587	A	19981126	ZA 1997-4587	19970526
US 2002007071	A1	20020117	US 2000-726276	20001130
PRIORITY APPL. INFO.:			GE 1996-344	A 19960109
			US 1996-21636P	F 19960712
			US 1997-775538	A3 19970109
			WO 1997-US511	W 19970109

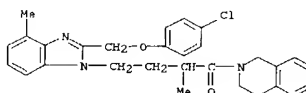
OTHER SOURCE(S): MARPAT 127:161824
 GI



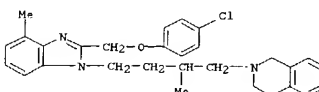
I

AB This invention provides a series of benzimidazoles, substituted in the

L70 ANSWER 17 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
 1-position by a variety of groups, substituted in the 2-position by certain carbocyclic-contg. groups, and optionally substituted in positions 4-7. The compds. are useful in treating or preventing conditions assocd. with an excess of neuropeptide Y. The invention also provides methods employing the compds., as well as pharmaceutical formulations comprising one or more of them as active ingredients. Many of the compds. are said to show significant activity as neuropeptide Y receptor antagonists, with KI of 10 µM to 0.1 nM (no addnl. data). Over 360 synthetic examples are given, in which the invention compds. serve as both intermediates and/or final products. Addnl. preps. of non-invention compds. are also provided. For instance, 2-[(4-chlorophenoxy)methyl]-4-methylbenzimidazole underwent N-alkylation by BrCH2CH2CHMeCO2Et using NaH in DMF (58%), and the product underwent a sequence of sapon. (94%), amidation with 4-phenylpiperidine using DCC and HOBT (56%), and amide redn. using BH3.THF (72%), to give title compd. I.
 IT 193627-48-4P 193627-75-7P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses) (invention compound; preparation of benzimidazole derivs. as neuropeptide Y receptor antagonists)
 RN 193627-48-4 CAPLUS
 CN Isoquinoline, 2-[4-[2-[(4-chlorophenoxy)methyl]-4-methyl-1H-benzimidazol-1-yl]-2-methyl-1-oxobutyl]-1,2,3,4-tetrahydro- (SCI) (CA INDEX NAME)



193627-75-7 CAPLUS
 CN Isoquinoline, 2-[4-[2-[(4-chlorophenoxy)methyl]-4-methyl-1H-benzimidazol-1-yl]-2-methylbutyl]-1,2,3,4-tetrahydro- (SCI) (CA INDEX NAME)



10/019,376

L70 ANSWER 18 OF 43 CAPIUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 1997:385652 CAPIUS
 DOCUMENT NUMBER: 127:5020
 TITLE: Preparation of quinolines as H⁺-ATPases inhibitors
 INVENTOR(S): Oku, Teruo; Kawai, Yoshio; Satoh, Shigeki; Yamazaki, Hitoshi; Kayakiri, Natsuko; Urano, Yasuharu; Yoshihara, Kousei; Yoshida, Noriko
 PATENT ASSIGNEE(S): Fujisawa Pharmaceutical Co., Ltd., Japan; Oku, Teruo; Kawai, Yoshio; Satoh, Shigeki; Yamazaki, Hitoshi; Kayakiri, Natsuko; Urano, Yasuharu; Yoshihara, Kousei; Yoshida, Noriko
 SOURCE: PCT Int. Appl., 308 pp.
 DOCUMENT TYPE: CODEN: PIXXD2
 LANGUAGE: Patent
 FAMILY ACC. NUM. COUNT: English
 PATENT INFORMATION: 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9714681	A1	19970424	WO 1996-JF2981	19961015
W: AU, CA, CN, JP, KR, MX, US				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
AU 9672288	A1	19970507	AU 1996-72288	19961015
EP 876345	A1	19981111	EP 1996-933647	19961015
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI				
JP 11514361	T2	19991207	JP 1996-515689	19961015
US 6008230	A	19991228	US 1998-51093	19980414
PRIORITY APPLN. INFO.:			GB 1995-21102	19951016
			AU 1996-1811	19960821
			WO 1996-JF2981	19961015

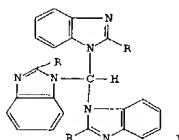
OTHER SOURCE(S): MARPAT 127:5020
 GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The title compds. [I; R1 = (un)substituted heterocyclic or aryl group; A = CONH, NHC(=O); n = 0-1; Y = H, III (wherein R2- R4 = H, halo, lower alkyl, etc.); X1 = O, S, NH); Z together with N = IV, V, VI, etc. (wherein R5 = H, lower alkyl; R6 = H, halo, lower alkyl, etc.; R7 = H, lower alkyl, a heterocyclic group, etc.)] and their pharmaceutically acceptable salts, useful for the prevention and/or the treatment of bone diseases caused by abnormal bone metabolism in human beings or animals, were prepared. Thus, treatment of 8-(2,6-dichlorobenzoylamino)-3-cyano-4-methylquinoline with NBS in the presence of 2,2'-azobis(isobutyronitrile) in Cl(CH₂)₂Cl and CCl₄ followed by reaction of the resulting 4-bromomethyl-8-(2,6-dichlorobenzoylamino)-3-cyanoquinoline with imidazole in Cl(CH₂)₂Cl, and treatment of the free base with 10% HCl/MeOH afforded VII.HCl which showed 100% inhibition of E₂-induced bone resorption.

IT 190132-06-09 190132-10-69
 RI: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

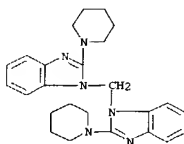
L70 ANSWER 19 OF 43 CAPIUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 1994:30719 CAPIUS
 DOCUMENT NUMBER: 120:30719
 TITLE: Synthesis and resolution of bis- and tris(benzimidazol-1-yl)methanes
 AUTHOR(S): Bobosik, Vladimir; Lopez, Concepcion; Claramunt, Rosa Maria; Roussel, Christian; Stein, Jean Louis; Thierry, Dominique; Elguero, Jose
 CORPORATE SOURCE: Fac. Cienc., UNED, Madrid, 28040, Spain
 SOURCE: Heterocycles (1993), 35(2), 1067-74
 DOCUMENT TYPE: CODEN: HETCYM; ISSN: 0385-6414
 LANGUAGE: Journal
 GI: English



AB Bis- and tris(benzimidazol-1-yl)methane derivs., e.g. I (R = Me, Et, CHMe₂, Cl), are reported with different substituents at position 2 of the benzimidazole ring. When the substituents are large enough, these compds., even the bis-derivs., can be resolved using HPLC on CHIRALPAK OT(+) columns.

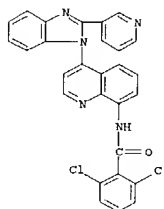
IT 151671-62-49 151671-63-59
 RI: SPN (Synthetic preparation); PREP (Preparation)
 (Preparation and enantiomeric resolution of, on a CHIRALPAK OT(+) HPLC column)

RN 151671-62-4 CAPIUS
 CN 1H-Benzimidazole, 1,1'-methylenebis[2-(1-piperidinyl)- (9CI) (CA INDEX NAME)]

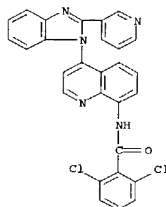


RN 151671-63-5 CAPIUS
 CN 1H-Benzimidazole, 1,1',1''-methylidynetris[2-(1-piperidinyl)- (9CI) (CA INDEX NAME)]

L70 ANSWER 18 OF 43 CAPIUS COPYRIGHT 2004 ACS on STN (Continued)
 RN 190132-06-0 CAPIUS
 CN Benzamide, 2,6-dichloro-N-[4-[2-(3-pyridinyl)-1H-benzimidazol-1-yl]-8-quinolinyl]- (9CI) (CA INDEX NAME)

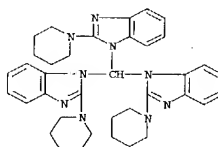


RN 190132-10-6 CAPIUS
 CN Benzamide, 2,6-dichloro-N-[4-[2-(3-pyridinyl)-1H-benzimidazol-1-yl]-8-quinolinyl]-, dihydrochloride (9CI) (CA INDEX NAME)



● 2 HCl

L70 ANSWER 19 OF 43 CAPIUS COPYRIGHT 2004 ACS on STN (Continued)



10,019,376

L70 ANSWER 20 OF 43 CAPLUS COPYRIGHT 2004 ACS ON STN

ACCESSION NUMBER: 1993:603427 CAPLUS

DOCUMENT NUMBER: 119:203427

TITLE:

INVENTOR(S):

PATENT ASSIGNEE(S):

SOURCE:

DOCUMENT TYPE:

LANGUAGE:

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9307124	A1	19930415	WO 1992-JP1258	19920930
W: AU, CA, FI, HU, JP, KR, NO, RU, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, NL, SE				
ZA 9207465	A	19930413	ZA 1992-7465	19920929
CN 1071164	A	19930421	CN 1992-110792	19920929
AU 9226851	A1	19930503	AU 1992-26851	19920930
AU 668363	R2	19960502		
EP 607439	A1	19940727	EP 1992-920913	19920930
EP 607439	B1	20020109		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, SE				
HU 70854	A2	19951128	HU 1994-910	19920930
JP 2818487	R2	19981030	JP 1993-506780	19920930
JP 2000264877	A2	20000926	JP 2000-70130	19920930
JP 2000264885	A2	20000926	JP 2000-70142	19920930
JP 3477138	R2	20031210		
JP 2000273089	A2	20001003	JP 2000-70138	19920930
JP 3481900	E2	20031222		
AT 211734	E	20020115	AT 1992-920913	19920930
US 5576322	A	19961119	US 1994-196110	19940218
FI 9401417	A	19940325	FI 1994-1417	19940325
NO 9401101	A	19940530	NO 1994-1101	19940325
US 5693652	A	19971202	US 1995-408867	19950323
JP 10095776	A2	19980414	JP 1997-195696	19970722
JP 3081172	B2	20000828		
US 5801180	A	19980901	US 1997-904260	19970731
PRIORITY APPLN. INFO.:			JP 1991-320853	A 19910930
			JP 1993-506780	A3 19920930
			JP 1997-195696	A3 19920930
			WO 1992-JP1258	A 19920930
			US 1994-196110	A3 19940218
			US 1995-408867	A3 19950323

OTHER SOURCE(S):

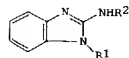
MARPAT 119:203427

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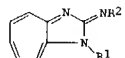
For diagram(s), see printed CA issue.

AB

The title compds. (I; R1-R4 = H, halo, (halo)alkyl, (un)substituted cycloalkyl, alkoxy, etc.; R5 = H, OH, hydrazino, alkyl, (un)substituted cycloalkyl, alkoxy, etc.; R6 = H, halo, OH, cyano, alkyl, alkoxy, alkenyl, etc.; A = benzene ring, pyridine ring, cyclohexane ring; B = pyridine



I



II

AB 2-Amino-1H-benzimidazoles I (R1 = 2-methyl-4-quinolyl, 4-MeOC6H4, 2-benzothiazolyl; R2 = cyclohexyl, 4-MeOC6H4) and 1,2-dihydro-2-iminocycloheptimidazoles II (R1 = 2-methyl-4-quinolyl, 4-pyridyl, 2-pyridyl, 2-thiazolyl, etc.; R2 = 2-methyl-4-quinolyl, 2-benzothiazolyl, 1H-benzimidazolyl-2-yl, etc.) were synthesized and evaluated for antiinflammatory and analgesic activity. I were synthesized via phenylthioureas or 2-chloro-1H-benzimidazole. II were synthesized by two methods: the reaction of carbodiimides with 2-amino-2,4,6-cycloheptatrien-1-one, or the reaction of guanidines with 2-chloro-2,4,6-cycloheptatrien-1-one. Some I and II compds. exhibited potent antiinflammatory and analgesic activities when compared to timegadine or tiaramide hydrochloride. II (R1 = 2-benzothiazolyl, R2 = cyclohexyl) showed superior analgesic activity to both timegadine and tiaramide HCl (50% edema inhibition = 1.7 mg/kg when given orally in the acetic acid-induced writhing test; 14.0 mg/kg orally in the Randall-Selitto method) in spite of having no effect on prostaglandin E2 synthesis. Crystal structure data for some II compds. are presented.

IT 148793-72-OP 148793-73-1F 148806-76-2P

148806-79-5P 148806-85-3P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation and analgesic and antiinflammatory properties of)

RN

CN

1H-Benzimidazol-2-amine, 1-(2-benzothiazolyl)-N-cyclohexyl-, monohydrochloride (9CI) (CA INDEX NAME)

L70 ANSWER 20 OF 43 CAPLUS COPYRIGHT 2004 ACS ON STN (Continued)

ring, pyrimidine ring, imidazole ring), useful for treatment of ischemia, heart attack, hypertension, cardiac insufficiency, and asthma (no data), are prep. E.g., a mixt. of 4-hydroxy-6-carbamoylquinazoline, SOC12, and POC13 was refluxed for 20 h to give 4-chloro-6-cyanquinazoline. 4-(4-Methoxybenzyl)amino-6,7,8-trimethoxyquinazoline (also prep.) had an IC50 of 1.0 μM against phosphodiesterase in an in vitro study.

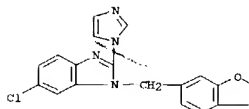
IT

RL: SPN (Synthetic preparation); PREP (Preparation)

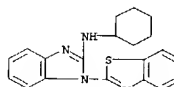
(preparation of, as phosphodiesterase inhibitor)

RN 150452-72-5 CAPLUS

CN 1H-Benzimidazole, 1-(1,3-benzodioxol-5-ylmethyl)-6-chloro-2-(1H-imidazol-1-yl)- (9CI) (CA INDEX NAME)



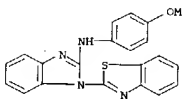
L70 ANSWER 21 OF 43 CAPLUS COPYRIGHT 2004 ACS ON STN (Continued)



● HCl

RN 148793-73-1 CAPLUS

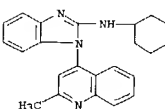
CN 1H-Benzimidazol-2-amine, 1-(2-benzothiazolyl)-N-(4-methoxyphenyl)-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 148806-76-2 CAPLUS

CN 1H-Benzimidazol-2-amine, N-cyclohexyl-1-(2-methyl-4-quinolyl)- (9CI) (CA INDEX NAME)

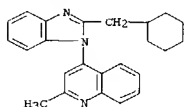


RN 148806-79-5 CAPLUS

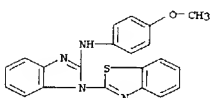
CN Quinolone, 4-(2-(cyclohexylmethyl)-1H-benzimidazol-1-yl)-2-methyl- (9CI) (CA INDEX NAME)

10/019,376

L70 ANSWER 21 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

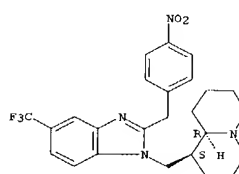


RN 148806-85-3 CAPLUS
CN 1H-Benzimidazol-2-amine, 1-(2-benzothiazolyl)-N-(4-methoxyphenyl)- (9CI)
(CA INDEX NAME)



L70 ANSWER 22 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1992:186 CAPLUS
DOCUMENT NUMBER: 116:186
TITLE: Preparation and pharmacological activity of some 1-lupinylbenzimidazoles and 1-lupinylbenzotriazoles
AUTHOR(S): Boido, Alessandro; Vazzana, Iana; Sparatore, Fabio; Genicola, Maria Luigia; Donnoli, Donato; Marmo, Emilio
CORPORATE SOURCE: Ist. Sci. Farm., Univ. Genova, Genova, 16132, Italy
SOURCE: Farmaco (1991), 46(6), 775-88
CODEN: FRMCES; ISSN: 0014-827X
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Twelve new 1-lupinylbenzimidazole and 1-lupinylbenzotriazole derivs. were prepared and, together with some previously described analogs, were tested for analgesic (hot-plate test), anti-inflammatory (against carrageenan edema), diuretic, and antihypertensive (in spontaneously hypertensive rats) activities. Several compds. exhibited a good degree of activity in one or in more than one areas.
IT 137739-77-6P 137739-80-1P 137756-15-1P
RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); ESU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); PROOC (Process); USES (Uses)
(preparation and pharmacol. of, structure in relation to)
RN 137739-77-6 CAPLUS
CN 2H-Quinolizine, octahydro-1-[[2-[(4-nitrophenyl)methyl]-5-(trifluoromethyl)-1H-benzimidazol-1-yl]methyl]-, (1S-trans)- (9CI) (CA INDEX NAME)

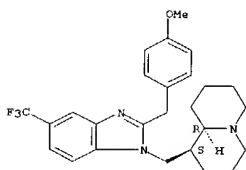
Absolute stereochemistry.



RN 137739-80-1 CAPLUS
CN 2H-Quinolizine, octahydro-1-[[2-[(4-methoxyphenyl)methyl]-5-(trifluoromethyl)-1H-benzimidazol-1-yl]methyl]-, (1S-trans)- (9CI) (CA INDEX NAME)

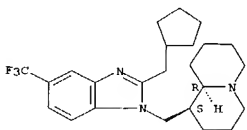
Absolute stereochemistry.

L70 ANSWER 22 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

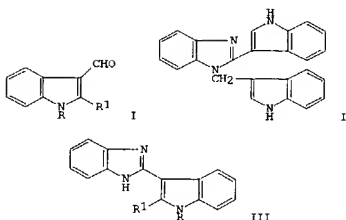


RN 137756-15-1 CAPLUS
CN 2H-Quinolizine, 1-[[2-(cyclopentylmethyl)-5-(trifluoromethyl)-1H-benzimidazol-1-yl]methyl]octahydro-, (1S-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



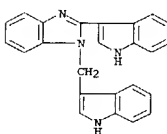
L70 ANSWER 23 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1990:515177 CAPLUS
DOCUMENT NUMBER: 113:115177
TITLE: The reaction of o-phenylenediamine with 3-formylindole
AUTHOR(S): Nguyen Minh Thao; Yurovskaya, M. A.; Rundel, Yu. G.
CORPORATE SOURCE: USSR
SOURCE: Vestnik Moskovskogo Universiteta, Seriya 2: Khimiya (1990), 31(1), 62-4
CODEN: VMUKAS; ISSN: 0579-9384
DOCUMENT TYPE: Journal
LANGUAGE: Russian
OTHER SOURCE(S): CASREACT 113:115177
GI



AB The reaction of o-phenylenediamine with 3-formylindole (I; R = R1 = H) gave benzimidazoles II and III (R = R1 = H) in 65 and 22% yield, resp. Similarly, I (R = H, R1 = Me; R = Me, R1 = H; R = CH2Ph, R1 = H) reacted with o-phenylenediamine to give 21-40% III. When S was present, the yields of III increased to 69-86%.

IT 129157-71-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 129157-71-7 CAPLUS
CN 1H-Benzimidazole, 2-(1H-indol-3-yl)-1-(1H-indol-3-ylmethyl)- (9CI) (CA INDEX NAME)

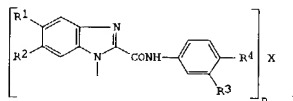


10/019,376

L70 ANSWER 23 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

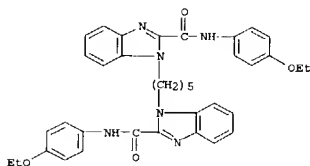
INFO ANSWER 24 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 1990:497603 CAPLUS
 DOCUMENT NUMBER: 113:97603
 TITLE: Preparation of benzimidazole-2-carboxanilides as light stabilizers
 INVENTOR(S): Spang, Peter; Neumann, Peter; Wagenblast, Gerhard; Trauth, Hubert
 PATENT ASSIGNEE(S): BASF A.-G., Germany
 SOURCE: Ger. Offen., 22 FP.
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3828537	A1	19900301	DE 1988-3828537	19880823
CA 1334420	A1	19950214	CA 1989-608287	19890814
US 5008397	A	19910416	US 1989-393962	19890815
EP 358025	A1	19900314	EP 1989-115356	19890819
EP 358025	B1	19940720		
JP 03002171	A2	19910108	JP 1989-215143	19890823
PRIORITY APPLN. INFO.:			DE 1988-3828537	19880823
OTHER SOURCE(S):			CASREACT 113:97603; MARPAT 113:97603	



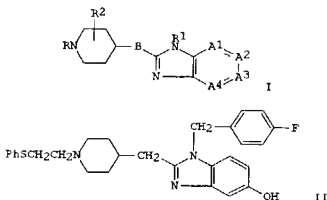
AB The title compds. [I; R1, R2 = H, Cl, alkyl, alkoxy, phenylalkyl, (un)substituted Ph, R3, R4 = H, alkyl, alkoxy, phenylalkyl, (un)substituted Ph, Ph, etc.; R3R4 = OCH2O, OCH2CH2O; when n = 1, X = (hydroxy)alkyl, cycloalkyl, alkenyl, acyloxyalkyl, etc.; when n = 2, X = (hydroxy)alkylene, (hydroxy)cycloalkylene, alkenylene, alkylenebis(carbonyloxyalkyl), methylenebis(phenylenediyl), etc.] were prepared. Thus, 4'-ethoxybenzimidazole-2-carboxanilide was heated 6.5 h with 1-bromooctane in DMF containing K2CO3 to give I (R1 = R2 = R3 = H, R4 = OEt) which gave Yellowness Index (ASTM D 1925) of 12.0 (control = 24.1) in a polyurethane sample after 48 h irradiation.
 IT RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of, as light stabilizer)
 RN 128813-90-1 CAPLUS
 CN 1H-Benzimidazole-2-carboxamide, 1,1'-(1,5-pentanediy)bis[N-(4-ethoxyphenyl)- (SCI) (CA INDEX NAME)

L70 ANSWER 24 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



INFO ANSWER 25 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 1988:437821 CAPLUS
 DOCUMENT NUMBER: 109:37821
 TITLE: Preparation of 4-(bicyclic heterocyclyl)methylpiperidines and analogs as antihistaminics
 INVENTOR(S): Janssens, Frans E.; Kennis, Ludo E. J.; Hens, Jozef F.; Torremans, Joseph L. G.; Diels, Gaston S. M.
 PATENT ASSIGNEE(S): Janssen Pharmaceutica N. V., Belg.
 SOURCE: U.S., 59 pp. Cont.-in part of U.S. Ser. No. 571,135, abandoned.
 DOCUMENT TYPE: USXXAM
 LANGUAGE: Patent
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4695575	A	19870922	US 1985-747754	19850624
ES 539281	A1	19870616	ES 1984-539281	19841231
AU 8537364	A1	19850912	AU 1985-37364	19850107
AU 573673	B2	19880616		
CA 1259609	A1	19890919	CA 1985-471589	19850107
FI 8500079	A	19850710	FI 1985-75	19850108
FI 83867	B	19910531		
FI 83867	C	19910910		
NO 8500085	A	19850710	NO 1985-85	19850108
NO 160849	B	19890227		
NO 160849	C	19890607		
DK 8500089	A	19850710	DK 1985-89	19850108
JP 60185777	A2	19850921	JP 1985-479	19850108
JP 07068240	B4	19950726		
HU 36471	A2	19850930	HU 1985-61	19850108
HU 200338	B	19900528		
ZA 8500187	A	19860827	ZA 1985-187	19850108
RO 90622	B3	19861210	RO 1985-117252	19850108
SU 1396964	A3	19880515	SU 1985-3836858	19850108
IL 74018	A1	19880831	IL 1985-74018	19850108
PL 145710	B1	19881031	PL 1985-251488	19850109
US 4839374	A	19890613	US 1987-94987	19870910
PRIORITY APPLN. INFO.:			US 1984-569369	19840109
			US 1984-671135	19841113
			US 1985-747754	19850624
OTHER SOURCE(S):			CASREACT 109:37821	

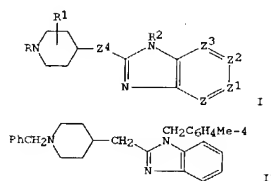
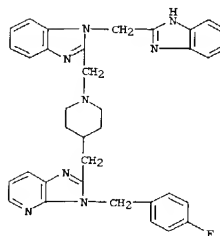


AS	<p>The title compds. [I: 3 of Al-4 = (un)substituted CH, the 4th = N, (un)substituted CH = R = CH₂, O, SO, SO₂; R = substituted C-6 alkyl, alkoxy, alkylthio, amino, pyrrolidinyl, piperidinyl, hexahydroazepinyl, etc.; R1 = H, alkyl, cycloalkyl, (un)substituted aryl, heteroaryl, (hetero)arylalkyl; R2 = H, alkyl] and their stereoisomers and acid salts were prepared as antihistaminics and serotonin antagonists.</p> <p>1-(4-fluorophenyl)-2-(4-piperidinylmethyl)-1H-benzimidazole-5-ol 1-(4-fluorophenyl)-2-(4-piperidinylmethyl)-1H-benzimidazole-5-one and PHSCH₂CH₂NR were reduced to 2-(4-Hexylamino)-5-oxo-1H-benzimidazole-5-one sodium salt (XII) and 2-(4-Hexylamino)-5-oxo-1H-benzimidazole-5-one sodium salt (XIII) to give 27.8% benzimidazole derivative (II). I inhibited compound 2800-induced lethality in rats, caused by histamine release, with ED50 of 0.005-0.16 mg/kg s.c. or orally. I also inhibited gastric lesions caused by simultaneous release of serotonin.</p>
IT	<p>99963-46-9P R1: RAC (Biological activity or effector, except adverse); RSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Biological study, unclassified); PREP (Preparation); USES (Uses) (preparation of, as antihistaminic)</p>
RN	<p>99963-46-9 CAPLUS</p>
CH	<p>3H-Imidazo[4,5-b]pyridine, 2-[1-[1-(1H-benzimidazol-2-yl)methyl]-1H-benzimidazol-2-yl)methyl]-4-piperidinylmethyl] 3-[1-(4-fluorophenyl)methyl]- (9CI) [CA INDEX NAME]</p>

L70 ANSWER 26 OF 43 CAPLUS COPYRIGHT 2004 ACS ON STN
 ACCESSION NUMBER: 1986:68861 CAPLUS
 DOCUMENT NUMBER: 104:68865
 TITLE: (Piperidinylmethyl)- and (piperidinylalkoxy)benzimidazole
 s and -imidazopyridines
 INVENTOR(S): Janssen, Frans Eduard; Kennis, Ludo Edmond Josephine;
 Hens, Jozef Francis; Torremans, Joseph Leo G.; Dials,
 Gaston Stanislas M.
 PATENT ASSIGNEE(S): Janssen Pharmaceutica N. V., Belg.
 SOURCE: Eur. Pat. Appl., 140 pp.
 CODEN: EPXKDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 PATENT ACC. NUM. COUNT: 2
 PATENT INFORMATION:

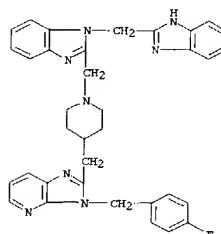
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 151826	A1	19850821	EP 1984-201851	19841213
EP 151826	B1	19920331		
R3: AT, RE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
AT 87626	E	19930415	AT 1984-201851	19841213
ES 93281	A1	19870015	ES 1984-538281	19841231
AU 8573764	A1	19850912	AU 1985-37364	19850107
AU 573673	B2	19880616		
CA 125609	A	19890919	CA 1985-471589	19850107
FI 890079	A	19850710	FI 1985-79	19850106
FI 83867	B	19910831		
FI 83867	C	19910910		
NO 8500085	A	19850710	NO 1985-85	19850108
NO 160849	B	19890227		
NO 160849	C	19890607		
DK 8500089	A	19850710	DK 1985-89	19850108
JP 07085777	A2	19850921	JP 1985-479	19850108
JP 07068240	B4	19950726		
HU 36471	A	19850930	HU 1985-61	19850108
ZA 850338	B	19900528		
ZA 8500187	A	19860608	ZA 1985-187	19850108
RO 90622	B3	19861210	RO 1985-117252	19850108
SU 1396964	A3	19880515	SU 1985-3636858	19850108
IL 74018	A1	19880831	IL 1985-74018	19850108
PL 145710	B1	19881031	PL 1985-251488	19850109
PRIORITY APPLN. INFO.1			US 1984-569369	19840109
			US 1984-671136	19841113
			EP 1984-201851	19841213

GI



AB The title compds. I [2-23 = CH, or One of 2-23 is N and the remainder are CH; 24 = CH₂, O, S, SO, SO₂], alkyl, aryl-, heteroalkyl-, aryl-, hydroxy-, aryloxy, heteroaryloxy-, alkony-, arylthio-, carbonyl-, carboalkoxy-, cyano-, amino-, ureido-, thioureido-, or guanidinoalkyl, cycloalkyl, alkenyl, arylalkenyl; R¹ = H, alkyl; R² = H, alkyl, cycloalkyl, aryl, heteroaryl, aryl- or heteroaryloxyalkyl, which were compared, excepted, and/or modified in activity. Thus, a mixture of 2-(4-MeC₆H₄(CH₂NH)₂)CSNH₂ and Et-1-benzyl-4-ureido-2-oxoimidazolidate 2-hydrochloride in MeOH was refluxed and NH₃ was added to give benzimidazole.

IT 99963-46-9P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 99963-46-9 CAPLUS
 RN 3H-imidazo[4,5-b]pyridine, 2-[[1-[(1H-benzimidazol-2-ylmethyl)-1H-
 CN benzimidazol-2-yl]methyl]-4-piperidinyl]methyl]-3-[[4-fluorophenyl]methyl]-
 (SCI) (CA INDEX NAME)



10/019,376

L70 ANSWER 27 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1984:79481 CAPLUS

DOCUMENT NUMBER: 100:79481

TITLE: 1,2-Disubstituted benzimidazole derivatives as potential biodynamic agents
 Pandey, V. K.; Lohani, H. C.; Agarwal, Akhilesh K.
 Dep. Chem., Lucknow Univ., Lucknow, India

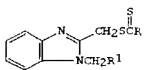
INDIAN DRUGS (1983), 21(2), 59-62

CODEN: INDRBA; ISSN: 0019-462X

DOCUMENT TYPE: Journal

LANGUAGE: English

GI



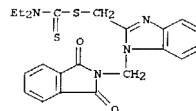
AB Some 1-methylaryl-2-(aminodithiocarbamoylmethyl)benzimidazoles (I; R = NET2, anilino, or morpholino; R1 = benzamido, phthalimido, 2,5-dihydroxyphenyl, or α -(β -naphthyl)) were synthesized and evaluated for their antimicrobial activity against *Staphylococcus aureus*, *Serratia marcescens*, *Aspergillus niger*, *A. flavus*, and *Fusarium moniliforme*. The compds. were also tested for their effect on the central nervous system (CNS). The presence of a benzamidomethyl or dihydroxyphenylmethyl group at position 1 of the benzimidazole nucleus is required for a CNS-depressant effect. Replacement of the NET2 group with a morpholino group does not alter the depressant effect. Antibacterial activity is mainly associated with the phthalimidomethyl group at position 1,

while the antifungal activity is due to the presence of the diethylaminodithiocarbamoylmethyl group at position 2 of the benzimidazole nucleus.

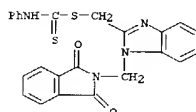
IT 88797-50-6P 88797-53-9P 88797-55-1P
 R: BAC (Biological activity or effector, except adverse); BPR (Biological process); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses) (preparation and pharmacol. of)

RN 88797-50-6 CAPLUS
 CN Carbamodithioic acid, diethyl-, [1-[(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)methyl]-1H-benzimidazol-2-yl)methyl ester (9CI) (CA INDEX NAME)

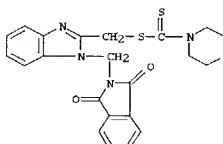
L70 ANSWER 27 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 88797-53-9 CAPLUS
 CN Carbamodithioic acid, phenyl-, [1-[(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)methyl]-1H-benzimidazol-2-yl)methyl ester (9CI) (CA INDEX NAME)



RN 88797-55-1 CAPLUS
 CN 4-Morpholinecarbodithioic acid, [1-[(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)methyl]-1H-benzimidazol-2-yl)methyl ester (9CI) (CA INDEX NAME)



L70 ANSWER 28 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1982:143053 CAPLUS

DOCUMENT NUMBER: 96:143053

TITLE: Imidazole bridged polynuclear rhodium(I) complexes. X-ray structure of [Rh(2-methylimidazole)(CO)2]4
 Tiripicchio, A.; Camellini, M.; Tiripicchio, Uson, R.; Orr, L. A.; Ciriaco, M. A.; Pinillos, W. T.
 Ist. Chim. Gen. Inorg., Univ. Parma, Parma, Italy

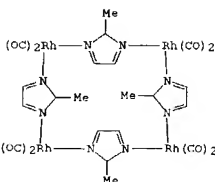
JOURNAL OF ORGANOMETALLIC CHEMISTRY (1982), 224(2), 207-16

CODEN: JORCAI; ISSN: 0022-328X

DOCUMENT TYPE: Journal

LANGUAGE: English

GI



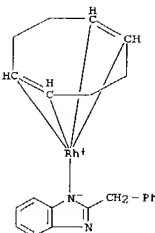
AB The synthesis and properties of polynuclear complexes of general formula [M(Rim)(diolfin)]_x, [M(Rim)(CO)2]_x and [M(Rim)(CO)L]_x [M = Rh, Ir; Rim = imidazole, 2-methylimidazole, 2-benzylbenzimidazole; L = PPh3, P(OPh)3] are reported. The crystal structure of [Rh(2-MeIm)(CO)2]4 (2-MeIm = 2-methylimidazole) (1) has been determined by x-ray methods.

IT 81240-06-4P
 RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)

RN 81240-06-4 CAPLUS

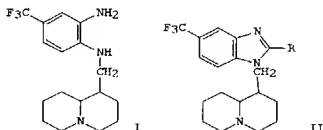
CN Rhodium, [(1,2,5,6- η)-1,5-cyclooctadiene][2-(phenylmethyl)-1H-benzimidazolato-N1]- (9CI) (CA INDEX NAME)

L70 ANSWER 28 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



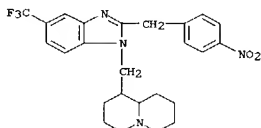
10//019,376

L70 ANSWER 29 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 1980:620657 CAPLUS
 DOCUMENT NUMBER: 93:220657
 TITLE: Benzimidazole derivatives with antiinflammatory activity
 AUTHOR(S): Solido, A.; Vazzana, I.; Sparatore, F.
 CORPORATE SOURCE: Ist. Politecnica Sci. Farm., Univ. Genova, Genoa, Italy
 SOURCE: Studi Saggiarezi, Sezione 2: Archivio Bimestrale di Scienze Mediche e Naturali (1979), 57(5-6), 801-10
 CODEN: SSSEAK ISSN: 0371-3172
 DOCUMENT TYPE: Journal
 LANGUAGE: Italian
 GI



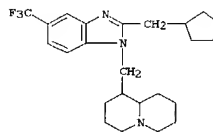
AB The o-phenylenediamine derivative I reacted with acid chlorides and imidate esters to yield benzimidazoles II [R = 4-O₂NC₆H₄CH₂, Ph, 4-R₁C₆H₄ (R₁ = Cl, OMe, NO₂), cyclopentylmethyl, 1-cyclopentylmethyl, Pr, CHMe₂, CF₃], useful as antiinflammatory agents and sedatives (no data). A mixture of I, PhCOCl, and dioxane was refluxed 4 h to give II (R = Ph).

IT 75584-65-5P 75584-72-4P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 75584-65-5 CAPLUS
 CN 2H-Quinolizine, octahydro-1-[[2-[(4-nitrophenyl)methyl]-5-(trifluoromethyl)-1H-benzimidazol-1-yl)methyl]- (9CI) (CA INDEX NAME)

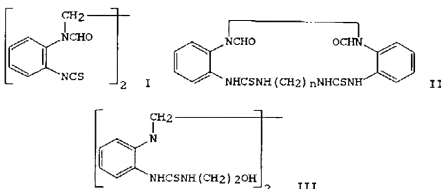


RN 75584-72-4 CAPLUS
 CN 2H-Quinolizine, 1-[[2-(cyclopentylmethyl)-5-(trifluoromethyl)-1H-

L70 ANSWER 29 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
 benzimidazol-1-yl)methyl]octahydro- (9CI) (CA INDEX NAME)



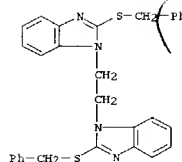
L70 ANSWER 30 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 1980:181145 CAPLUS
 DOCUMENT NUMBER: 92:181145
 TITLE: Reactions of heterocycles with thiophosgene. Part 8. Reactions of N,N'-(bis-2-isothiocyanatophenyl)-N,N'-diformyl-1,2-diaminoethane
 AUTHOR(S): Bull, Roy; Hollywood, Frank; Suschitzky, Hans
 CORPORATE SOURCE: Pharm. Div., ICI Ltd., Macclesfield, SK10 4TG, UK
 SOURCE: Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (1979), (12), 3037-41
 CODEN: JCPRB4; ISSN: 0300-922X
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 92:181145
 GI



AB The reactions of the diaminoethane I, prepared by fission of 1,2-bis(benzimidazol-1-yl)ethane with thiophosgene and base, are reported with a variety of nucleophiles. Aliphatic diamines H₂N(CH₂)_nNH₂ (n = 2, 3, 4, 6) reacted with I to give 16-, 17-, 18-, and 20-membered rings II, resp. Reaction of I with primary or secondary amines gave the expected thioureas but reaction with bidentate nucleophiles, e.g. β-aminoethanol, gave the unexpected bis-thioureas, e.g. III.

IT 73093-41-1P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 73093-41-1 CAPLUS
 CN 1H-Benzimidazole, 1,1'-(1,2-ethanediyl)bis[2-[(phenylmethyl)thio]- (9CI) (CA INDEX NAME)

L70 ANSWER 30 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



10/019,376

170 ANSWER 31 OF 43 CAPLUS COPYRIGHT 2004 ACS ON STN
 ACCESSION NUMBER: 1978:490203 CAPLUS
 DOCUMENT NUMBER: 89:90203
 TITLE: Synthesis, electron paramagnetic resonance, and magnetic studies of binuclear bis(η⁵-cyclopentadienyl)titanium(III) compounds with bridging pyrazolate, bimimidazole, and bibenzimidazole anions
 AUTHOR(S): Fieselmann, Benjamin F.; Hendrickson, David N.; Stucky, Glen D.
 CORPORATE SOURCE: Sch. Chem. Sci., Univ. Illinois, Urbana, IL, USA
 SOURCE: Inorganic Chemistry (1978), 17(8), 2074-84
 CODEN: INOCAJ; ISSN: 0020-1669
 DOCUMENT TYPE: Journal
 LANGUAGE: English

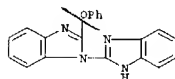
AB The preparation and characterization of three binuclear Ti(III) complexes, [(η⁵-C₅H₅)₂Ti(1,2-Bim)]₂, [(η⁵-C₅H₅)₂Ti(1,2-BibzIm)]₂, and [(η⁵-C₅H₅)₂Ti(1,2-BibzIm)]₂ (Bim²⁻ is the dianion of 2,2'-bimimidazole, BibzIm²⁻ is the dianion of 2,2'-bibenzimidazole, and pz⁻ is the anion of pyrazole) are reported. The first two air-sensitive compds. are thermally quite stable due to the bis-bidentate nature of the bridging anions, Bim²⁻ and BibzIm²⁻. Antiferromagnetic exchange interactions are present in the first two complexes. In contrast, the bis(pyrazolate)-bridged dimer acts as a normal paramagnetic with no signs of an antiferromagnetic interaction. Frozen-glass EPR spectra of all three binuclear Ti(III) complexes are characteristic of triplet-state spectra with appreciable zero-field splittings. Excellent agreement between actual Ti-Ti distances from crystal structures and the calculated distances based on the observed D values is obtained.

IT 66652-61-7P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 66652-61-7 CAPLUS
 CN Lithium, [μ-[2,2'-bi-1H-benzimidazolato(2-)-N1:N1']][bis(N-(2-(dimethylamino)ethyl)-N,N',N'-trimethyl-1,2-ethanediamine-N,N',N''')di-(9CI)] (CA INDEX NAME)

170 ANSWER 32 OF 43 CAPLUS COPYRIGHT 2004 ACS ON STN
 ACCESSION NUMBER: 1975:458759 CAPLUS
 DOCUMENT NUMBER: 83:58759
 TITLE: Tris(benzimidazo)-1,3,5-triazine from the thermolysis of 2-aryloxybenzimidazoles
 AUTHOR(S): Ishida, Sadahiro; Fukushima, Yoshiaki; Sekiguchi, Shizuo; Matsui, Kohji
 CORPORATE SOURCE: Dep. Chem., Gunma Univ., Kiryu, Japan
 SOURCE: Bulletin of the Chemical Society of Japan (1975), 48(3), 956-9
 CODEN: BCSJAB; ISSN: 0009-2673
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 83:58759

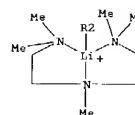
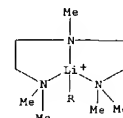
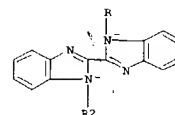
GI For diagram(s), see printed CA issue.
 AB 2-Aryloxybenzimidazoles gave tris(benzimidazo)-[1,2-a:1',2'-c:1'',2''-e]-1,3,5-triazine (I) and PhOH in almost quant. yields upon heating at 230-250°C, while in the reaction in cumene small amts. of 2-aryloxy-1,2'-dibenzimidazole and dicumyl were obtained along with the major products. 2-Phenylthiobenzimidazole gave diphenyl disulfide and 1,2'-dibenzimidazole, together with I. The thermolysis proceeds by step-by-step radical processes involving the formation of such intermediates as 2-aryloxy-1,2'-dibenzimidazole and 2-aryloxy-1,2'-1',2''-trisbenzimidazole.

IT 56176-20-6P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 56176-20-6 CAPLUS
 CN 1,2'-Bi-1H-benzimidazole, 2-phenoxy- (9CI) (CA INDEX NAME)



170 ANSWER 31 OF 43 CAPLUS COPYRIGHT 2004 ACS ON STN (Continued)

PAGE 1-A



PAGE 2-A

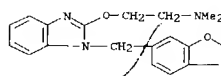
170 ANSWER 33 OF 43 CAPLUS COPYRIGHT 2004 ACS ON STN
 ACCESSION NUMBER: 1975:156308 CAPLUS
 DOCUMENT NUMBER: 82:156308
 TITLE: Benzimidazole derivatives
 INVENTOR(S): Masagawa, Hajime; Tada, Nobutada; Masoya, Masahiro
 PATENT ASSIGNEE(S): Yoshitomi Pharmaceutical Industries, Ltd.
 SOURCE: Jpn. Tokkyo Koho, 4 pp.
 CODEN: JAKXAD
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 49041198	B4	19741107	JP 1970-26357	19700328
PRIORITY APPL. INFO.:				
G1 For diagram(s), see printed CA issue.				
AB Twenty-three benzimidazoles [I, R = CH ₂ Ph, CH ₂ C ₆ H ₄ Cl-p, etc., R ₁ = O(CH ₂) ₃ NMe ₂ , OCH ₂ CH ₂ NMe ₂ , 3-morpholinopropoxy, SCH ₂ CH ₂ NMe ₂ , S(CH ₂) ₃ NMe ₂ , S(CH ₂) ₂ NMe ₂ , SCH ₂ CH ₂ N(CH ₂ Ph) ₂ , etc., R ₂ = H, 6-Cl, 5-MeO, etc.] or their salts, useful as antihistaminics, analgesics, and inflammation inhibitors (no data), were prepared by treating the chloro derivative (I, R ₁ = Cl) with the appropriate alc. or thiol in the presence of NaH. For example, NaOCH ₂ CH ₂ NMe ₂ (obtained from 8.9 g HOCH ₂ CH ₂ NMe ₂ and 4.8 g NaH) was refluxed with I (R = CH ₂ Ph, R ₁ = Cl, R ₂ = H) (21.2 g) in benzene for 4 hr and the product treated with (CO ₂ H) ₂ to give 20 g I (R = CH ₂ Ph, R ₁ = OCH ₂ CH ₂ NMe ₂ , R ₂ = H) (CO ₂ H) ₂ .				

IT 55473-88-6P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 55473-88-6 CAPLUS
 CN Ethanamine, 2-[(1-(1,3-benzodioxol-5-ylmethyl)-1H-benzimidazol-2-yl)oxy]-N,N-dimethyl-, ethanediolate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 55473-87-5
 CMF C19 H21 N3 O3



CM 2

CRN 144-62-7
 CMF C2 H2 O4



ACCESSION NUMBER:

1973:87 CAPLUS

DOCUMENT NUMBER:

78:87

TITLE:

Dialkylaminoalkylbenzimidazoles of pharmacological interest

AUTHOR(S):

Paglietti, G.; Sparatore, F.

CORPORATE SOURCE:

Ist. Chim. Farm. Tossicol., Univ. Sassari, Sassari, Italy

SOURCE:

Studi Sassaressi, Sezione 2: Archivio Bimestrale di Scienze Mediche e Naturali (1971), 49(5-6), 192-203
CODEN: SSSEAK; ISSN: 0371-3172

DOCUMENT TYPE:

Journal

LANGUAGE:

Italian

AB

The synthesis and pharmacol. activity of 20 1-[(dialkylamino)alkyl]-2-(4'-substitutedbenzyl)-5-acetylbenzimidazoles (I, R = (dialkylamino)alkyl, R' = H, Cl, MeO, or EtO) are reported. Most of the compds. tested pharmacol. had analgesic activity; the most active was 1-[(dimethylamino)ethyl]-2-[(4-methoxybenzyl)-5-acetylbenzimidazole (I, R = MeN(CH₂)CH₂Me, R' = MeO) [37401-78-8], which also had antimycobacterial activity in vitro at 12.5 µg/ml. No specific configuration of the basic side chain was required for analgesic action, but rather the totality of the groups at positions 1, 2, and 5 was determinant. For the synthesis, 3-nitro-4-bromacetophenone was reacted with RNH₂ to give 2-nitro-4-acetyl-N-[(dialkylamino)alkyl]anilines which, after reduction to the 2-amino compds. with H₂/Pd, were reacted with 4-R'-PhCH₂C(=NH)OEt.HCl to give the desired benzimidazoles.

IT

40431-88-7 40431-89-8 40431-90-1

40431-91-2

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)

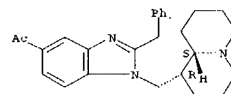
RN

40431-88-7 CAPLUS

CN

Ethanone, 1-[1-[(octahydro-2H-quinolizin-1-yl)methyl]-2-(phenylmethyl)-1H-benzimidazol-5-yl]-, (1R-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

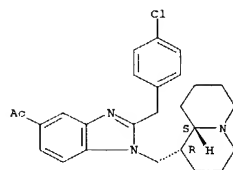


RN 40431-89-8 CAPLUS

CN

Ethanone, 1-[2-[(4-chlorophenyl)methyl]-1-[(octahydro-2H-quinolizin-1-yl)methyl]-1H-benzimidazol-5-yl]-, (1R-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

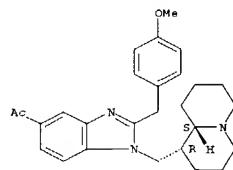


RN 40431-90-1 CAPLUS

CN

Ethanone, 1-[2-[(4-methoxyphenyl)methyl]-1-[(octahydro-2H-quinolizin-1-yl)methyl]-1H-benzimidazol-5-yl]-, (1R-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

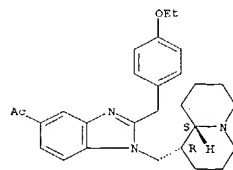


RN 40431-91-2 CAPLUS

CN

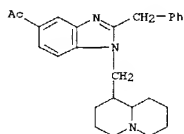
Ethanone, 1-[2-[(4-ethoxyphenyl)methyl]-1-[(octahydro-2H-quinolizin-1-yl)methyl]-1H-benzimidazol-5-yl]-, (1R-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

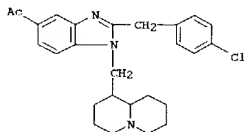


10/019,376

L70 ANSWER 35 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 1972:448338 CAPLUS
 DOCUMENT NUMBER: 77:48338
 TITLE: Dialkylaminoalkylbenzimidazoles of pharmacological interest. III
 AUTHOR(S): Paglietti, G.; Sparatore, F.
 CORPORATE SOURCE: Ist. Chim. Farm. Tossicol., Univ. Sassari, Sassari, Italy
 SOURCE: Farmaco, Edizione Scientifica (1972), 27(4), 333-42
 CODEN: FRFSAX; ISSN: 0430-0920
 DOCUMENT TYPE: Journal
 LANGUAGE: Italian
 GI For diagram(s), see printed CA Issue.
 AB 5-Acetyl-2-nitroanilines (I) (n = 2,3; R = Me, Et) are hydrogenated over Pd to give the corresponding phenylenediamines which are heated with the imino esters (II) (R1 = H, Cl, OMe, OEt) in HOAc to give 16 benzimidazoles (III). Similarly prepared are IV (R = H, Cl, OMe, OEt).
 IT 37429-41-7P 37429-42-8P 37429-43-9P
 37429-44-0P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 RN 37429-41-7 CAPLUS
 CN Ethanone, 1-[1-[(octahydro-2H-quinolizin-1-yl)methyl]-2-(phenylmethyl)-1H-benzimidazol-5-yl]- (9CI) (CA INDEX NAME)

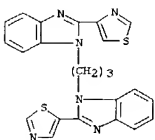


RN 37429-42-8 CAPLUS
 CN Ethanone, 1-[2-[(4-chlorophenyl)methyl]-1-[(octahydro-2H-quinolizin-1-yl)methyl]-1H-benzimidazol-5-yl]- (9CI) (CA INDEX NAME)

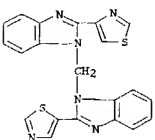


RN 37429-43-9 CAPLUS

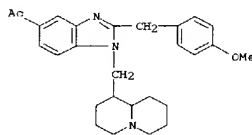
L70 ANSWER 36 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 1971:510235 CAPLUS
 DOCUMENT NUMBER: 75:110235
 TITLE: Reaction of 2-(4-thiazolyl)benzimidazole (thiabenzazole) with alkyl halides
 AUTHOR(S): Maynard, Judith A.; Rae, I. D.; Roach, D.; Swan, J. M.
 CORPORATE SOURCE: Dep. Chem., Monash Univ., Clayton, Australia
 SOURCE: Australian Journal of Chemistry (1971), 24(9), 1873-81
 CODEN: AJCHAS; ISSN: 0004-9425
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB 2-(4-Thiazolyl)benzimidazole (thiabenzazole) is alkylated at a benzimidazole N by reaction with NaH and an alkyl halide. With 1,3-dibromopropane and 1,2-dibromoethane, the thiazole N is also alkylated to give quaternary salts containing the 6,7-dihydro-5H-thiazolo[3',4':1,2][1,4]diazepino[8,9-a]benzimidazole and 5,6-dihydrothiazolo[3',4':1,2]pyrazino[7,8-a]benzimidazole ring systems, resp. The structures proposed for these tetracyclic products are supported by spectroscopic examination of the products formed by alkali fission of their thiazole rings.
 IT 33705-44-1P 33705-44-2P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 RN 33705-44-1 CAPLUS
 CN Benzimidazole, 2-(4-thiazolyl)-2'-(5-thiazolyl)-1,1'-trimethylenebis- (8CI) (CA INDEX NAME)



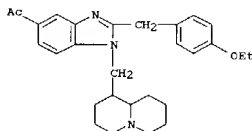
RN 33813-38-6 CAPLUS
 CN Benzimidazole, 2-(4-thiazolyl)-2'-(5-thiazolyl)-1,1'-methylenebis- (8CI) (CA INDEX NAME)



L70 ANSWER 35 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
 CN Ethanone, 1-[2-[(4-methoxyphenyl)methyl]-1-[(octahydro-2H-quinolizin-1-yl)methyl]-1H-benzimidazol-5-yl]- (9CI) (CA INDEX NAME)



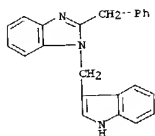
RN 37429-44-0 CAPLUS
 CN Ethanone, 1-[2-[(4-ethoxyphenyl)methyl]-1-[(octahydro-2H-quinolizin-1-yl)methyl]-1H-benzimidazol-5-yl]- (9CI) (CA INDEX NAME)



L70 ANSWER 36 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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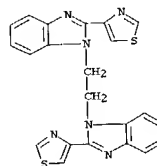
70 ANSWER 37 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN
 AB SESSION NUMBER: 1971:420286 CAPLUS
 DOCUMENT NUMBER: 75:20286
 TITLE: Syntheses and mass spectral studies of some benzimidazoles and N-skatyltriazole
 AUTHOR(S): Kamal, Ahmad; Qureshi, Asaf A.; Qureshi, Izhar H.; Anjum, Massarat
 CORPORATE SOURCE: Chem. Res. Div., Pak. Council Sci. Ind. Res. Lab., Karachi, Pak.
 SOURCE: Pakistan Journal of Scientific and Industrial Research (1970), 13(4), 341-7
 CODEN: PSIRAA; ISSN: 0030-9885
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI For diagram(s), see printed CA issue.
 AB N-Skatylbenzimidazole (I), N-skatyl-2-methylbenzimidazole, N-skatyl-2-benzylbenzimidazole, N-skatyl-1,2,3-benzotriazole, and β -(N-benzimidazolyl)ethyl 3-phenanthryl ketone were prepared by the alkylation of gramine with the corresponding benzimidazole or benzotriazole. Mass spectra of these were studied in detail.
 IT 32273-69-1P
 RL: PREP (Properties); SPN (Synthetic preparation); PREP (Preparation) (preparation and mass spectrum cf)
 RN 32273-69-1 CAPLUS
 CN Benzimidazole, 2-benzyl-1-(indol-3-ylmethyl)- (8CI) (CA INDEX NAME)



70 ANSWER 38 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN
 AB SESSION NUMBER: 1969:438960 CAPLUS
 DOCUMENT NUMBER: 71:38960
 TITLE: Bis[2-(4-thiazolyl)-1-benzimidazolyl]alkanes
 INVENTOR(S): Arico, Robert
 SOURCE: Fr., 4 pp.
 CODEN: FRXXAK
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 1532237		19680712	FR	19660106

GI For diagram(s), see printed CA issue.
 AB The title compds. useful as antifungal or antihelminthic agents were prepared by the reaction of suitable benzimidazoles with a saturated dihalogenated hydrocarbon or with a suitable 1-(haloalkyl)benzimidazole in an inert solvent or liquid carrier at elevated temperature. Thus, 40.2 g. 2-(4-thiazolyl)benzimidazole was treated with 0.8 g. MeONa in 50 ml. absolute MeOH. Then 300 ml. HCONMe₂ (II) was added and MeOH distilled in vacuo. After addition of 9.9 g. (CH₂Cl)₂ the mixture was brought slowly to boiling and refluxed 3 hrs. yielding bis[2-(4-thiazolyl)-1-benzimidazolyl]ethane. Other prepared compds. were: 1,3-bis[2-(4-thiazolyl)-1-benzimidazolyl]propane, bis[2-(4-thiazolyl)-1-benzimidazolyl]methane, 1,2-bis[2-(2-ethoxycarbonyl-4-thiazolyl)-1-benzimidazolyl]ethane, 1,2-bis[2-(4-thiazolyl)-5,6-dichloro-1-benzimidazolyl]ethane, 1,2-bis[2-(1,2,3-thiadiazol-4-yl)-1-benzimidazolyl]ethane, 1,2-bis[2-(1,2,3-dimethyl-1-benzimidazolyl)-2-[2-(4-thiazolyl)-5-methoxy-1-benzimidazolyl]ethane, and 1-[2-(4-thiazolyl)-5,6-dichloro-1-benzimidazolyl]-2[2-(4-thiazolyl)-1-benzimidazolyl]ethane.
 IT 22927-59-9P
 RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)
 RN 22927-59-9 CAPLUS
 CN Benzimidazole, 1,1'-ethylenebis[2-(4-thiazolyl)- (8CI) (CA INDEX NAME)]



L70 ANSWER 38 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

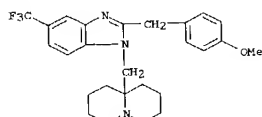
L70 ANSWER 39 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN
 AB SESSION NUMBER: 1968:486995 CAPLUS
 DOCUMENT NUMBER: 69:86995
 TITLE: 2-Benzyl-1-(1-quinolizidinylmethyl)-5-(trifluoromethyl)benzimidazoles
 INVENTOR(S): Sparatore, Fabio
 SOURCE: U.S., 3 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3394141	A	19680723	US 1965-507540	19651112
			US 1965-507540	19651112

PRIORITY APPL. INFO.:
 AB Benzyl nitriles are converted, in CHCl₃ with EtOH and HCl, to imino ether hydrochlorides which are treated in solution with 5-trifluoromethyl-2-quinolizidinylmethylamine (I) at 40-60° to give 1-(1-quinolizidinylmethyl)-2-(lower alkoxy)benzyl-5-(trifluoromethyl)benzimidazoles. The products, and their salts, are useful as antiinflammatory, and antipyretic agents. Thus, 25 g. 1-chloro-2-nitro-4-(trifluoromethyl)benzene was added dropwise to 16.8 g. 1-quinolizidinylmethylamine in 15 ml. HCONMe₂ at 140°. The mixture was heated to 195-200° for 90 min., dissolved in 2N HCl, and extracted with ether to give an aqueous acidic solution of the intermediate 5-(trifluoromethyl)-2-(quinolizidinylmethylamino)-nitrobenzene (II) which is made alkaline and extracted with ether to give a product, HCl salt, m. 260°. An H₂S saturated (at 0°) solution of NaOH (200 ml.) was added slowly to 0.05 mole I in 20 ml./g. EtOH and the mixture stirred for 16 hrs. in the absence of air. The solution was evaporated, the residue triturated with 2N HCl, and the S filtered off. The acidic solution was evaporated to give I.HCl. A solution of 0.04 mole p-methoxyphenylacetoneitrile (III) in 40 ml. CHCl₃ and 2.5 ml. dry EtOH was saturated at 0° with dry HCl, kept at 18-20° for 13-14 hrs., and evaporated in vacuo without heating. The product was mixed with 0.02 mole I in 50 ml. AcOH and stirred at 45° for 16 hrs. A 10 ml. portion of 2N HCl was added and the mixture evaporated, triturated with 50 ml. H₂O and a few drops of dilute HCl, and extracted with ether. The acidic aqueous solution was made alkaline with NH₄OH and extracted with ether to give 1-(1-quinolizidinylmethyl)-2-(4-methoxybenzyl)-5-(trifluoromethyl)benzimidazole, m. 48°. The compds. also claimed are the 2-(4-alkoxybenzyl) analogs, where alkoxy are ethoxy, propoxy, isopropoxy and butoxy groups.
 IT 20069-32-3P
 RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)
 RN 20069-32-3 CAPLUS
 CN 2H-Quinolizine, octahydro-1-[(2-(p-methoxybenzyl)-6-(trifluoromethyl)-1-benzimidazolyl)methyl]- (8CI) (CA INDEX NAME)

10/019,376

L70 ANSWER 39 OF 43 CAPLUS COPYRIGHT 2004 ACS ON STN (Continued)



L70 ANSWER 40 OF 43 CAPLUS COPYRIGHT 2004 ACS ON STN

ACCESSION NUMBER: 1968:459157 CAPLUS
 DOCUMENT NUMBER: 69:59157
 TITLE: Dialkylaminoalkylbenzimidazoles of pharmacological interest
 AUTHOR(S): Sparatore, F.; Boido, V.; Fanelli, F.
 CORPORATE SOURCE: Univ. Sassari, Sassari, Italy
 SOURCE: Farmaco, Edizione Scientifica (1968), 23(4), 344-59
 CODEN: FRFSAX; ISSN: 0430-0920

DOCUMENT TYPE: Journal
 LANGUAGE: Italian
 OTHER SOURCE(S): CASREACT 69:59157

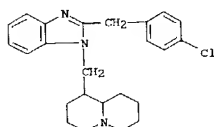
GI For diagram(s), see printed CA issue.
 AB A number of dialkylaminoalkylbenzimidazoles (I) of pharmacol. interest were synthesized and screened. I were prepared by condensation of the appropriate substituted 1,2-diaminobenzene derivs. (II) with imino esters (III). II were obtained by condensation of a substituted o-chloronitrobenzene with an amine and subsequent reduction of the reaction product. Thus, to 0.25 mole refluxing Et2N(CH2)2NH2 0.1 mole 1-chloro-2-nitro-4-trifluoromethylbenzene was slowly added, and the mixture refluxed and stirred 2 hrs. and worked up to yield 87% N-(2-nitro-4-trifluoromethyl)phenyl-β-diethylaminoethylamine (IV), m. 140-2°. Similarly prepared were N-(2-nitro-4-trifluoromethyl)phenyl-β-diethylaminopropylamine (V), b.p. 150-5° and β-dimethylaminopropylamine (VI), m. 140-2°. A solution of 20 g. aminolupinane in 18 ml. HCONMe2 (DMF) was heated at 140°, stirred, and treated with 30 g. 1-chloro-2-nitro-4-trifluoromethylbenzene, the temperature raised to 200°, and the mixture stirred 90 min. at 200° and worked up to give 63% N-(2-nitro-4-trifluoromethyl)phenyl-lupinylamine-HCl, m. 260°. Similarly prepared in EtOH as solvent, was 83.3% N-(2,4-dinitrophenyl)lupinylamine, m. 128-30°. A solution of 4 g. IV in 30 ml. EtOH was treated with H at room temperature and 1 atmospheric over 0.4 g. Pd/C to yield quant. N-(2-amino-4-trifluoromethyl)-phenyl-β-diethylaminoethylamine, II, (R = CF3, R1 = (CH2)2NMe2), b.p. 130-5°. The following II were similarly prepared (R, R1, and m.p. given): CF3, (CH2)2NMe2 164° (3HCl salt); CF3, (CH2)3NMe2, 172-4° (2HCl salt); and CF3, lupinyl, 188-90° (2HCl salt) II.HCl (R = NO2, R1 = lupinyl), m. 222-4° (decomposition), was obtained by reduction of 2,4-dinitrophenyl-lupinylamine with H2S at 45°. PhCH2CN (3.4 g.) in 34 ml. CHCl3 and 1.7 ml. anhydrous EtOH was saturated at 0° with dry HCl, left overnight, solvent removed in vacuo, and the residue, consisting of the imino ester, treated with 4 g. II (R = CF3, R1 = (CH2)2NMe2) in 34 ml. HOAc, and the mixture warmed at 45°, stirred, refluxed 16 hrs., and worked up to yield 4 g. I (R1 = CF3, R2 = (CH2)2NMe2, R3 = H), m. 55° (CSH12). Similarly prepared were the following I (R1, R2, R3, m.p., and % yield given): CF3, (CH2)2NMe2, Cl, 86°, 70% CF3, (CH2)2NMe2, MeO, 102-3°, 71% CF3, (CH2)2NMe2, OEt, 78-9°, 79% CF3, (CH2)3NMe2, H, 66-7°, 49% CF3, (CH2)3NMe2, Cl, 64-5°, 45% CF3, (CH2)3NMe2, OMe, 65°, 67% CF3, (CH2)3NMe2, OEt, 75-6°, 80% CF3, (CH2)3NMe2, H, 56-7°, 44% CF3, (CH2)3NMe2, Cl, 56-9°, 29% CF3, (CH2)3NMe2, OMe, 54-5°, 36% CF3, (CH2)3NMe2, OEt, 35° (monohydrate), 59% CF3, lupinyl, H, 55-60° (monohydrate), 73% CF3, lupinyl, Cl, 153-4°, 79% CF3, lupinyl, OMe, 80-1°, 69% CF3, lupinyl, OEt, 48-50°

L70 ANSWER 40 OF 43 CAPLUS COPYRIGHT 2004 ACS ON STN (Continued)

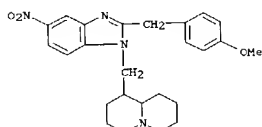
(hemihydrate), 42; H, lupinyl, H, 261-6° (2HCl salt), 45; H, lupinyl, Cl, 119-20°, 55; and H, lupinyl, OMe, 170-4° (decompn.) (2HCl salt sesquihydrate), 52. To 3 g. 2-(p-ethoxybenzyl)imidazole in 20 ml. DMF 0.57 g. NaNH2 was added at 0°, the mixt. stirred 1 hr. at 45° under N, 2.45 g. lupinyl chloride in 10 ml. DMF added and the mixt. heated 3 hrs. at 140° and worked up to yield 84% I (R1 = H, R2 = lupinyl, R3 = OEt), m. 102-3° (Et2O-n-CSH12). The following I were similarly prepd. (R1, R2, R3, m.p., and % yield given): NO2, lupinyl, H, 150-4° 74; NO2, lupinyl, Cl, 124-5°, 69; NO2, lupinyl, OMe, 81-2°, 62; and NO2, lupinyl, OEt, 188-90° (decompn.) (2HCl salt), 59. Most I showed some analgesic properties, in some cases also spasmolytic, hypcholesteremic or local anesthetic action. I (R1 = CF3, R2 = lupinyl, R3 = OMe) showed antiinflammatory activity on oral administration to rats.

IT 17089-47-3P 17089-48-4P 17089-49-5P
 17089-51-9P 19539-20-9P 19542-11-1P
 19542-12-2P 19542-14-4P 19542-16-6P
 19542-18-8P 19689-66-0P 20872-31-0P
 RI: SYN (Synthetic preparation); PREP (Preparation)
 (preparation of)

RN 17089-47-3 CAPLUS
 CN 2H-Quinolizine, 1-[[2-[(4-chlorophenyl)methyl]-1H-benzimidazol-1-yl]methyl]octahydro- (9CI) (CA INDEX NAME)

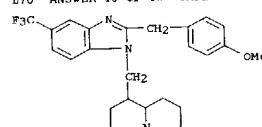


RN 17089-48-4 CAPLUS
 CN 2H-Quinolizine, octahydro-1-[[2-[(4-methoxyphenyl)methyl]-5-nitro-1H-benzimidazol-1-yl]methyl]- (9CI) (CA INDEX NAME)

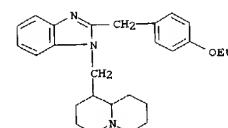


RN 17089-49-5 CAPLUS
 CN 2H-Quinolizine, octahydro-1-[[2-[(4-methoxyphenyl)methyl]-5-(trifluoromethyl)-1H-benzimidazol-1-yl]methyl]- (9CI) (CA INDEX NAME)

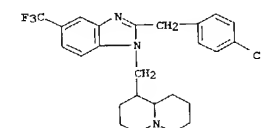
L70 ANSWER 40 OF 43 CAPLUS COPYRIGHT 2004 ACS ON STN (Continued)



RN 17089-51-9 CAPLUS
 CN 2H-Quinolizine, 1-[[2-[(4-ethoxyphenyl)methyl]-1H-benzimidazol-1-yl]methyl]octahydro- (9CI) (CA INDEX NAME)



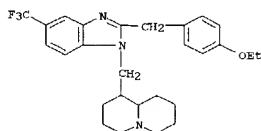
RN 19539-20-9 CAPLUS
 CN 2H-Quinolizine, 1-[[2-(p-chlorobenzyl)-5-(trifluoromethyl)-1-benzimidazolyl]methyl]octahydro- (8CI) (CA INDEX NAME)



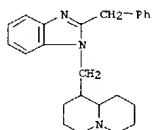
RN 19542-11-1 CAPLUS
 CN 2H-Quinolizine, 1-[[2-(p-ethoxybenzyl)-5-(trifluoromethyl)-1-benzimidazolyl]methyl]octahydro- (8CI) (CA INDEX NAME)

10/019,376

L70 ANSWER 40 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

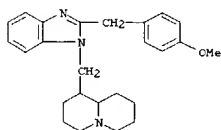


RN 19542-12-2 CAPLUS
CN 2H-Quinolizine, 1-[(2-benzyl-1-benzimidazolyl)methyl]octahydro-, dihydrochloride (8CI) (CA INDEX NAME)



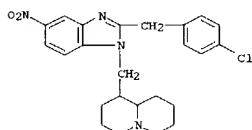
● 2 HCl

RN 19542-14-4 CAPLUS
CN 2H-Quinolizine, octahydro-1-[[2-(p-methoxybenzyl)-1-benzimidazolyl)methyl]-, dihydrochloride (8CI) (CA INDEX NAME)

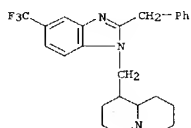


● 2 HCl

L70 ANSWER 40 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

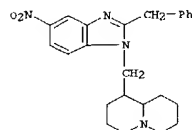


RN 20572-31-0 CAPLUS
CN 2H-Quinolizine, 1-[[2-benzyl-5-(trifluoromethyl)-1-benzimidazolyl)methyl]octahydro- (8CI) (CA INDEX NAME)



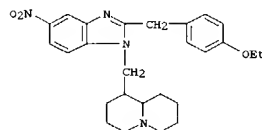
L70 ANSWER 40 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

RN 19542-16-5 CAPLUS
CN 2H-Quinolizine, 1-[(2-benzyl-5-nitro-1-benzimidazolyl)methyl]octahydro-, monohydrochloride (8CI) (CA INDEX NAME)



● HCl

RN 19542-18-8 CAPLUS
CN 2H-Quinolizine, 1-[[2-(p-ethoxybenzyl)-5-nitro-1-benzimidazolyl)methyl]octahydro-, dihydrochloride (8CI) (CA INDEX NAME)



● 2 HCl

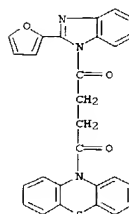
RN 19869-66-0 CAPLUS
CN 2H-Quinolizine, 1-[[2-(p-chlorobenzyl)-5-nitro-1-benzimidazolyl)methyl]octahydro- (8CI) (CA INDEX NAME)

L70 ANSWER 41 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1968:443524 CAPLUS
DOCUMENT NUMBER: 69:43524
TITLE: Benzimidazoles carrying a substitute derived from phenothiazine
PATENT ASSIGNEE(S): Chimetron Sarl.
SOURCE: Fr., 7 pp.
CODEN: FRXXAK
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 1488281		19670713	FR	19660329

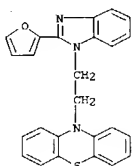
GI For diagram(s), see printed CA issue.
AB Anthelmintic compds. (I) containing in the same mol. a phenothiazine and a benzimidazole nucleus substituted in position were prepared. In an example 37.7 g. N-[3-(10-phenothiazinyl)-propyl]-2-nitroaniline in a solution of 250 ml. anhydrous pyridine was treated with 14.8 g. 4-thiazolylcarbonyl chloride over night at room temperature, a dinitranilide was separated and put in 150 ml. EtOH with 50 ml. concentrated HCl. It was treated with H at 3 atms. in the presence of 2 g. of 5% Pd on alumina. Hydrogenation with stirring was stopped when H absorption reached 0.6 g. The pressure was lowered to atms. and the reaction boiled 4 hrs. to give I [X = (CH₂)₃, R = 4-thiazolyl]. Also prepared were the following I (X and R given): (CH₂)₂, 2-furyl; COCH₂CO, 2-furyl; and 1-[2-(10-phenothiazinyl)ethyl]-5,6-dimethyl-2-(2-chlorophenyl)benzimidazole and 1-(10-phenothiazinyl)ethyl]-5,6-dichloro-2-phenylbenzimidazole.
IT 19547-75-2e 19652-26-7e 19748-78-8e
RL: SYN (Synthetic preparation); PREP (Preparation)
RN 19547-75-2 CAPLUS
CN Phenothiazine, 10-[3-[[2-(2-furyl)-1-benzimidazolyl]carbonyl]propionyl]- (8CI) (CA INDEX NAME)



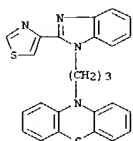
RN 19652-26-7 CAPLUS
CN Phenothiazine, 10-[2-[2-(2-furyl)-1-benzimidazolyl]ethyl]- (8CI) (CA INDEX NAME)

10/019,376

L70 ANSWER 41 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
INDEX NAME)

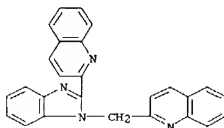


RN 19748-78-8 CAPLUS
CN Phenothiazine, 10-[3-(2-(4-thiazolyl)-1-benzimidazolyl)propyl]- (8CI) (CA INDEX NAME)



L70 ANSWER 43 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 19671115646 CAPLUS
DOCUMENT NUMBER: 661115646
TITLE: Formation of substituted benzimidazoles upon ring cleavage of piperidonedicarboxylic acid esters
AUTHOR(S): Mueller, Eberhard; Haller, Rolf
CORPORATE SOURCE: Univ. Freiburg/Br., Freiburg/Br., Fed. Rep. Ger.
SOURCE: Arzneimittel-Forschung (1967), 17(1), 55-7
CODEN: ARZNAD; ISSN: 0004-4172
DOCUMENT TYPE: Journal
LANGUAGE: German

GI For diagram(s), see printed CA Issue.
AB The reaction of piperidonedicarboxylic acid esters (I), with C₆H₄(NH₂)₂-n (II) yielded in addition to 1,5-benzodiazepin-4-ones (CA 66, 18704e), 2-arylbenzimidazoles (III) and 1-arylmethyl-2-arylbenzimidazoles (IV), which were isolated by fractional crystallization and chromatog. Thus, 2
g. I (R = Ph, R₁ = Et, R₂ = Me) gave 1.1 g. III (R₁ = Ph) and 0.3 g. IV (R₁ = Ph). III and IV were also prepared by heating 0.05 mole II and RCHO in xylene (R, mole RCHO used, g. III obtained, m.p. III, g. IV obtained, and m.p. IV listed): Ph, 0.05, 3.7, 280°, 1.6, 133°; Ph, 0.1, 7.3, -, 1.8, -, 2-pyridyl, 0.1, 5.0, 221°, 2.3, 105°; 2-quinolyl, 0.05, 3.5, 220°, 3.1, 172°. III (R = 3-pyridyl), m. 252°.
IT 14191-60-7P
RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)
RN 14191-60-7 CAPLUS
CN Benzimidazole, 2-(2-quinolyl) 1-(2-quinolylmethyl)- (8CI) (CA INDEX NAME)



L70 ANSWER 42 OF 43 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 19671473556 CAPLUS
DOCUMENT NUMBER: 67173556

TITLE: Reaction of pyruvic acid with o-diamines. III. Synthesis of 2-(α-oxoalkyl)benzimidazoles
AUTHOR(S): Zellner, Hugo; Zellner, Gertraud; Knepl, F.; Dirnberger, J.
CORPORATE SOURCE: Forschungslab. "Donau-Pharmazie" G.m.b.H., Linz, Austria
SOURCE: Monatshefte fuer Chemie (1967), 98(3), 643-65
CODEN: MOCHAP
DOCUMENT TYPE: Journal
LANGUAGE: German
GI For diagram(s), see printed CA Issue.
AB Ph-substituted AcCO₂H reacted with o-C₆H₄(NH₂)₂ to give aromatic ring-substituted α-oxoethylbenzimidazoles, in addition to 3-benzyl-1,2-dihydroquinokalin-2-ones (Helv. Chim. Acta 49, 913(1966)) and benzylbenzimidazoles. Thus, PhCHCOCO₂H treated with o-C₆H₄(NH₂)₂ gave 2-(β,β-diphenyl-α-oxoethyl)benzimidazole (I). α-Oxoalkylphenylbenzimidazoles were also prepared from α-hydroxyalkylphenylbenzimidazoles by oxidation with CrO₃ (Bistrzycki and Przewarski, CA 7: 2393) or with SeO₂. 2-[β-(4-methoxyphenyl)-α-oxoethyl]benzimidazole was prepared from 2-[β-(4-methoxyphenyl)-α-hydroxyethyl]benzimidazole by reduction with (iso-PrO)Al (Woodward and Kornfeld, CA 43: 1411).
IT 15449-99-7P
RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)
RN 15449-99-7 CAPLUS
CN Ketone, p-methoxybenzyl 1-piperonyl-2-benzimidazolyl (8CI) (CA INDEX NAME)

